#### AUDIO VISUAL EDUCATION

#### Overview:

This course offered to the Instructor trainees intended to

- a) make the Instructor trainees aware of the importance of different, indigeneously available audio visual materials and equipment and
- b) to develop skills for planning, preparation and use of audio visual aids in their teaching-learning situations.

#### The Main course objectives are :-

- 1) To comprehend elementary theoretical psychological concepts in relation to the design of instructional materials and use of audio visual aids in the teaching learning process.
- 2) To create an awareness about the possibilities offered by audio visual aids and media for making learning more effective and efficient.
- 3) To manifest professional skills to design and make simple inexpensive audio visual aids for use in the Instructional process.
- 4) To develop skills in the operation and maintenance of selected audio visual equipment such as filmstrip and slide projectors, 16 mm movie projector, overhead projector, opaque projector, tape recorder, record player, duplicating machines, photocopier and electronic scanner.
- 5) To demonstrate professional competence in the use of selected audio visual aids in a meaningful way for specific instructional tasks to improve learning.

#### GOALS:

#### Module - I. Introduction to Instructional design.

- 1. To define and distinguish between Instructional Technology, Instructional Goai, Behavioural obejctives.
- 2. To understand the concept systems approach to Instructional design".
- 3. To introduce new concepts:
  interactive instruction, job performance requirements,
  task analysis, criterion test, achievement test, job
  aid, validation, follow up data and to explain their
  purposes and processes, through a flow chart.
- 4. To relate selection of media and the instructional design model.
- 5. To define and distinguish between audio visual aids and media and to highlight the importance of media and audio visual aids in the process of learning and teaching.
- 6. To identify the kinds of audio visual aids and classify them as projected, non-projected and aids with or without sound.
- 7. To present the three basic characteristics of media production-imitative, adoptive and creative.
- 8. To introduce to the learner the three categories of Blooms texonomy of instructional objectives cognitive, affective and psychomotor domains.
- 9. To present basic ideas on the taxonomic classifications of Bloom, Krauthwohl, Kibler and Dave.
- 10. To present the basic communication model of Berlo.
- 11. To acquaint with the Dales Cone of Experiences and relate it to the Bruner's modes of learning.

- 12. To present basic ideas of perception, communication and learning theories.
- 13. To introduce to the stimulus-response pattren learning theories.

#### Module - II. Non-Projected Visual Aids.

- 14. To provide basic ideas of visual design and theoretical concepts in designing visuals for instructional use.
- 15. To familiarise different forms of lettering and use of lettering kits to make graphic aids.
- 16. To provide information in distinguishing the characteristics of
  - a) graphs
  - b) charts.
  - c) posters
  - d) chalkboards
  - e) bulletin board
  - f) flannel board
  - g) magnetic board and
  - h) models and mockups.
- 17. To provide adequate learning experiences in making the non-projected visual aids listed above.
- 18. To indicate the details of contruction of
  - a) chalkboard
  - b) bulletin board
  - c) flannel board and
  - d) magnetic board
- 19. To assist in the development of skills in using chalkboard for instructional process including.
  - a) making chalkboard drawings
  - b) coloured sketches
  - c) using chalkboard instruments and
  - d) providing experience in effective use of chalkboard.

- a) charts
- b) posters
- c) bulletin board displays
- d) flannel board cutouts
- e) magnetic board materials, and
- f) models.
- 21. To encourage learners in the use of inexpensive non-projected visual aids in their practice teaching sessions.
- 22. To show how to present demonstrations using real things, alone or in combination with other available resources.
- 23. To focus attention on the various forms of selfinstructional materials for skill training, using inexpensive non-projected materials.

#### Module - III. Projected Aids.

- 24. To acquaint the learner with basic information on the following projected aids.
  - a) filmstrips
  - b) slides
  - c) overhead transparencies
  - d) 16 mm motion films
  - e) Television
  - f) multi-media, and
  - g) multi-imagery.
- 25. To present information and provide skills to enable the learner to distinguish the advantages and disadvantages of each one of the above projected aids.

- 26. To provide capability to understand the utility of each of the above aids, to enable the learner to choose the right type of aid based on need.
- 27. To acquaint with the basic principles of pejection of different equipment used to project the above projected aids.
- 28. To provide skills in identification of the essential operating parts of
  - a) filmstrip projector
  - b) slide projector
  - c) overhead projector
  - d) 16 mm film projector
  - e) opaque projector
  - f) television & VCR.
- 29. To provide basic ideas to identify the classroom conditions for the lighting, seating and accoustics required to use the projection equipment listed under item (28) above.
- 30. To provide skills in the operation of the equipment listed under item (28).
- 31. To encourage the learner to use the projected haids as a source of instructional material in specified instructional tasks.
- 32. To show the examples of using different audio visual equipment and instructional modes, how multi-media and multi-imagery could be used in learning situations.
- 33. To suggest and assist the learner to make group-work for playing multi-mode presentations at imitative level, not involving preparation of any original aids.

## Module - IV. <u>Duplicating Processes</u>

- 34. To acquaint the learner with the basic principles of the following forms of reproduction processes.
  - a) spirit duplication
  - b) stencil duplication
  - c) electronic stencil scanning, and
  - d) photocopying.
- 35. To familiarise the learner with the important operational parts of
  - a) spirit duplicator
  - b) stencil duplicator
  - c) electronic stencil scanner, and
  - d) photo copier.
- 36. To provide experience in making the following type of copy or duplicating masters, and operation of
  - a) spirit duplicating master
  - b) hand written and drawn stencil
  - c) electronically scanned stencil picture and written matter and
  - d) masters for photo copying.
- 37. To help the learner to distinguish the characteristics of each of the above duplicating processes in order to use them judiciously for instructional purposes.

#### Module - V. <u>Audio Aids</u>

- 38. To familiarise the learner with different kinds of audio experiences used in instruction.
- 39. To provide experience in identifying the essential requirements for using audio aids in instructions.
- 40. To provide skills and knowledge in identifying the essential operational parts of
  - a) cassette tape recorder
  - b) tape recorder and tape deck, and
  - c) record player.
- 41. To provide experiences to the instructor trainees in the operation of
  - a) cassette tape recorder
  - b) tape recorder / tape deck, and
  - c) record player.
- 42. To provide necessary experience to use audio as a source: for learning skills.

## INSTRUCTIONAL OBJECTIVES FOR A COURSE ON AUDIO VISUAL EDUCATION.

Module - 1: Introduction to Instructional Design.

#### Unit - I. Systems Approach to Instructional Design.

- 1. Classify by definition the terms :
  - a) instructional technology
  - b) instructional goal
  - c) behavioural objective.
- 2. Differentiate between instructional goal and behavioural objectives.
- 3. Discriminate the statement which best describes the purpose of writing behavioural objectives.
- 4. Label statements that are instructional goals and behavioural objectives.
- 5. List three advantages of interactive instruction.
- 6. Explain the purpose of validation.
- 7. Describe why interactive instruction is easy to validate.
- 8. State the three key components of interactive instruction.
- 9. Classify by definition, 'Systems approach to instructional design'.

#### Unit - II. - Basic concepts on Instructional Design.

- 10. Select the definition of job performance requirements.
- 11. Discriminate four types of task analysis, relating to situations.
- 12. Classify by definition, a criterion test.
- 13. Differentiate the statement which best describes the difference between a criterion test and an achievement test.
- 14. Explain the validity of a criterion test in terms of its performance requirement.
- 15. Select the statement which best describes the proper function of a lesson plan.
- 16. Explain the purpose of job aid.
- 17. Explain the two phases of validation.
- 18. Describe the value of follow up data.
- 19. Arrange the eight components to be followed in instructional design in seriatim (in the sequential order).
- 20. Determine the factors on which selection of media fit in the instructional design.
- 21. Describe how training requirements are determined.

#### Unit - III. Media and Audio Visual Aids:

- 22. Differentiate stimulus and response.
- 23. Classify by definition the process of learning.
- 24. Define media and audio visual aids.
- 25. Differentiate between media and audio visual aids.
- 26. Distinguish between projected and non-projected aids.
- 27. Categorise teaching aids as aids that can be heard, seen, and heard and seen.
- 28. Identify and sub-classify aids as projected aids, non-projected aids with the addition of sound or without sound.
- 29. Classify by definition perception and relate it to the design of audio visual aids.
- 30. List five recognised contribution of audio visual aids to learning.
- 31. List three levels of audio visual aids production activity.

#### Unit - IV. Learning and communication

#### Unit - V. Learning and Visual Aids.

- 32. List the seven components of Berlo's model of communication.
- 33. Explain how you determine whether learning has taken place.
- 34. Differentiate between stimuli and response and classify them.
- 35. State the two categories of learning theories.
- 36. List the kinds of Learning domains categorised by Bloom.
- 37. List three human behaviours under each of the following cognitive domain, affective domain, and psychomotor domain.
- 38. Discriminate different levels of activity under
  - a) Cognitive domain
  - b) Affective domain
  - c) Psychomotor domain.
- 39. Compare and relate the three major modes of learning (enactive, iconic & symbolic) with the three kinds of experiences (direct, pictorial and abstract).
- Write in order the eleven divisions of the Dales.

  Cone of Experience and classify learning experiences,

  with Bruner's three modes of learning.
- 41. List the five senses through which we learn.

#### Module - II. NON PROJECTED VISUAL AIDS

#### Unit - I . Graphic Design.

- 42. State three important aspects which assist in producing effective graphic materials.
- 43. Name the six principles of visual design.
- भे. Identify the features of each one of the visual design principles.
- 45. List five visual tools used in graphic design.
- 46. Relate each of the given visual tools with at-least one function of their application.
- 47. Apply the principles of visual design for making visuals such as posters, charts and other non projected training aids, later on when completing other units of the module 2.

#### Unit - 2. <u>Lettering</u>

- 48. Enumerate the five factors which contribute to good readability in lettering.
- 49. Determine the minimum letter size for non-projected visual aids to be used in classroom, 10 M deep.
- 50. Differentiate italic lettering from other types of lettering.
- 51. Classify different letter styles as
  - a) Gothic
  - b) Textural
  - c) Roman.
- 52. List three principles to be followed in selecting lettering styles, for a visual.
- 53. Demonstrate good lettering layout which can contribute for readability in lettering.
- 54. State the two basic kinds of letter spacing for words.
- 55. Name the rule to be followed for determining the space between lines of lettering.
- 56. Write the five principles which will help to bring out contrast between letters and background.
- 57. Demonstrate ability to write captions using lettering guides and letter stencils, applying the
  factors contributing to layout, readability,
  spacing and contrast.

## Unit - 3. Graphs and Charts

- 58. Classify by definition Graphs
- 59. Classify by definition Charts.
- 60. Differentiate the four types of commonly used graphs.
- 61. Explain the type of graph suitable for definite instructional purposes.
- 62. Name the 10 principal categories of charts.
- 63. Relate these categories with their functions.
- 64. Prepare four types of graphs for using later in practice teaching sessions, by applying the design principles.
- 65. Apply principles of visual design to prepare ten types of charts in his trade area to be used later as teaching aids, during practice teaching.

#### Unit - 4. Posters and Cartoons.

- 66. Classify by definition posters.
- 67. State the four characteristics of posters.
- 68. Identify four functions for which posters are used for instruction.
- 69. List the five steps to be followed while using posters for instructional purposes.
- 70. Classify by definition Cartoons.
- 71. Prepare posters on safety, applying the principles of design.

- 72. Identify five types of chalkboards commonly found.
- 73. State five advantages of chalkboards.
- 74. Explain two needs of printing letters while writing on chalkboard.
- 75. Distinguish between progressive, strip and exploded diagrams.
- 76. List the four qualities of black board summary.
- 77. Draw diagrams combining horizontal, vertical, angular and curved lines using correct stroke techniques.
- 78. Identify and use correct techniques used for straight, horizontal, vertical and curved lines.
- 79. Organise and illustrate a topic with diagrams on chalkboard maintaining speed, legibility and correct layout.
- 80. State four essential characteristics of chalkboards.
- 81. Design and draw diagrams using (1) template and (2) pounce methods.
- 82. Plan a well organised chalk board summary on a topic of the trade using colour and illustrate it on the chalkboard.

## Unit - 6. Bulletin Board

- 83. Classify by definition bulletin board
- 84. State the purpose of bulletin boards.
- 85. Explain three salient features of bulletin boards.
- 86. State six advantages of bulletin boards when used for instruction.
- 87. Select the most suitable materials for making bulletin boards.
- 88. Explain three important considerations to be given in setting up and location of bulletin boards.
- 89. Describe 5 instructional functions of bulletin boards.
- 90. Organise a bulletin board layout for display materials reviewing a lesson, and display it for the use of trainees.

#### Unit - 7. Flannel and Magnetic Boards.

- 91. Classify by definition a Flannel Board.
- 92. Name the materials used for Flannel Board.
- 93. Distinguish the materials suitable for Flannel Board cut outs.
- 94. Explain the features of a magnetic board.
- 95. Name the materials used for making magnetic boards.
- 96. List five follow up actions suggested to ensure the value of presentation using.
  - a) Flannel boards
  - b) Magnetic boards.
- 97. Organise and display a concept on
  - a) Flannel board
  - b) Magnetic board.

## Unit - 8. Enlarging and Reducing Visuals

- 98: Select the type of projector needed for enlarging
  - 8) Printed pictures from books and magazines.
  - b) Outline of real objects.
  - c) Pictures from 35 mm slide
  - d) Pictures from a translucent original.
- 99. Suggest a method for reducing visuals using projectors.
- 100. Suggest two methods for enlarging visuals without any projection equipment.
- 101. Explain the three uses of pantograph for reproduction of diagrams/drawings.
- 102. Enlarge figures using the
  - a) Grid method
  - b) Pantograph method
  - c) Opaque projector
  - d) Overhead Projector

- 103. Reduce figures using the
  - a) Pantograph method
  - b) Grid method
  - c) Overhead Projector.
- Explain how pounce pattern method is used for image transfer.
- 105. Organise and make a diagram on the chalk board using pounce pattern method.

#### Unit - 9. Objects, Models and Mockups.

- 106. Differentiate between objects and specimens.
- 107. Identify the kinds of experience that could be provided by real objects.
- 108. Classify by definition Models.
- 109. Name three types of models and their functions.
- 110. Give five suggestions for effective classroom utilisation of models.
- 111. Differentiate between models and mockup.
- 112. Classify by definition an instructional kit.

#### PROJECTED AIDS

#### Unit - 1. Kinds of Projected Aids.

- 113. State two fundamental aspects on which the selection of audio visual material depend.
- 114. State the two primary functions of instructional media.
- 115. Distinguish between slides and filmstrips.
- 116. List two advantages of slides when used in instruction.
- 117. Enumerate five advantages of filmstrips.
- 118. Write two disadvantages of filmstrips.
- 119. Write two disadvantages of slides:
- 120. State two advantages of Overhead projector.
- 121. Explain reasons that necessitate the use of motion pictures.
- 122. List four special features of motion pictures.
- 123. Write two disadvantages of motion pictures.
- 124. Illustrate five techniques which can enhance the utility of motion pictures as media.
- 125. State two advantages of television over motion picture.
- 126. Point out two specific advantages of television in teacher training programmes.
- 127. Differentiate between multi-media and multiinagery presentations.
- 128. Give reasons for using multi-media presentation.

#### Unit - 2. Projection Systems.

- 129. Enumerate three common elements in projection systems used for instructional purposes.
- 130. Identify and name the parts of projection system viz. lenses, lamps of the following projectors.
  - a) filmstrip projector
  - b) slide projector
  - c) motion picture projector
  - d) overhead projector
  - e) opaque projector.
- 131. State the method of placing the projectuals in the following projectors to get the picture without any directional changes:
  - a) filmstrip projector
  - b) slide projector
  - c) motion picture projector
  - d) overhead projector, and
  - e) opaque projector.
- 132. Classify the projectors according to the system of projection as direct, indirect and reflect projection system.
  - a) filmstrip projector
  - b) slide projector
  - c) motion picture projector
  - d) overhead projector, and
  - e) opaque projector.

- 133. State the minimum and maximum viewing distance for projected images by slide, filmstrip, motion picture projectors and television.
- 134. Differentiate the conditions of lighting required when you use slide, filmstrip, overhead, opaque or motion picture projector.
- 135. Explain how you can correctly position lamp filament with respect to the screen.
- 136. List three important points to be considered while replacing lamps.
- 137. Differentiate the various lenses in a projection system based on their explicit functions.
- 138. Explain how the size of a projected image can be varied While using projectors.
- 139. Compare the use of Zoomlens with ordinary lens.
- 140. Name the two common projection defects and indicate the method for rectification.
- 141. Differentiate the types of projection screens.

## Unit - 3. Filmstrip Projector

- 142. Identify the operating parts of a given filmstrip projector.
- 143. Identify all the components contained in the projection system and name the one responsible for image magnification.
- 144. State the reason for loading filmstrips in inverted position in filmstrip projector.
- 145. Differentiate between single and double frame film format.
- 146. Enumerate the procedure of operating a filmstrip projector in the correct order.
- 147. Operate the filmstrip projector.

## Unit - 4. Slides and slide projector

- 148. Name parts of a common type of slide projector.
- 149. State the two important points to be considered while loading rotary trays on slide projector.
- 150. List the three facilities of remote control attachment.
- 151. Name the four types of slide carriers used.
- 152. Differentiate rectangular/Circular slide carriers and single/double slide carriers.
- 153. Relate position of thumb marks on the slides with reference to the position when it is placed in the projector.
- 154. Differentiate with reference to the position when it is placed in the projector.
- 155. Name the five types of slides available in addition to the normal photographic slides.
- 156. State the advantages of slides over filmstrips.
- 157. Enumerate in the order the sequence of setting up, loading and projecting slides using a slide projector which can take multiple slide trays.
- 158. Set up, load and operate correctly a slide projector, using slide trays and remote control.

#### Unit - 5. Motion Picture Projection.

- 159. Classify the types of 16 mm projectors on the basis of sound recording system.
- 160. Differentiate 16 mm silent and sound film by their speed.
- 161. Determine the time required for projecting a film reel of standard length.
- 162. Name the parts of three different systems in a movie projector.
- 163. Identify the part of a movie projector, which draws the film past the aperture.
- 164. Give reason for a fluttery image on a screen.
- 165. State the function of the objective lens.
- 166. Identify the parts contained in the film transportation system of the movie projector.
- 167. Indicate how a film is placed in the film transportation system.
- 168. Identify frame, sound track and sprocket holes of a film.
- 169. Distinguish between different types of sound recordings.

- 170. Identify the controls contained in the sound system of a 16 mm movie projector.
- 171. Explain the effect of improperly wound films on the sound roller.
- 172. Describe the method adopted to avoid sound distortion due to the jerky movement of the film at the gate.
- 173. Describe the steps in the order to be followed for setting up, threading the film and project a 16 mm movie film projector.
- 174. Explain the importance of looping the film above and below the film channel.
- 175. State the two important parts to be cleaned as a part of maintenance.
- 176. List materials required for joining broken film.
- 177. Enumerate in order the sequence of setting up, threading, and projecting 16 mm film including packing up.
- 178. Set, load film and operate a 16 mm movie projector
- 179. Replace a fused projection lamp of a 16 mm movie projector.
- 180. Clean lens and aperture gate of a movie projector.
- 181. Fit the exciter lamp of a movie projector.

## Unit - 6. Overhead Projector

- 182. Differentiate overhead projector from other types of projectors.
- 183. Identify the parts of an overhead projector.
- 184. Name the part of the overhead projector which helps to adjust the image on the screen.
- 185. State the maximum and minimum sizes of objects/
  transparencies that can be projected with an
  overhead projector.
- 186. Demonstrate how transparencies are located on the projection stage.
- 187. Indicate the kinds or types of objects that can be projected using an overhead projector.
- 188. Determine the projector distance from the screen to set up the overhead projector.
- 189. State the important aspects to be looked into when replacing a lamp in an overhead projector.
- 190. Write the steps to be followed for projecting with an overhead projector, in the order of operations.
- 191. Operate an overhead projector and project transparencies and non-transparent objects.

#### Unit - 7. Opaque Projector

- 192. Differentiate the type of material that could be used over opaque and other projectors, as transparent and opaque.
- 193. Identify the type of projection system applicable to opaque projectors.
- 194. Identify the parts of an opaque projector.
- 195. Differentiate the requirement of lighting conditions in the room where opaque projectors and overhead projectors are used.
- 196. State how the visuals to be projected are placed on the platen of the opaque projector (direction).
- 197. State the precaution to be observed while projecting metal objects in an opaque projector.
- 198. Name three types of opaque materials that can be used on a opaque projector.
- 199. Name the control on the opaque projector which helps to position the image to be projected.
- 200. Draw 563 direction of the light rays from the picture (placed) on the opaque projector is reflected by mirrors on the screen.
- 201. Write the operational sequence for projecting visuals using an opaque projector.
- 202. Organise, set up and project pictures and opaque objects using an oraque projector.

#### Unit = 8. <u>Television</u>.

- 203. Name the two common types of television systems.
- 204. State the advantage of television over motion picture used for instructional purposes.
- 205. Explain the function of voltage stabilizers attached to Television sets.
- 206. Identify and name the controls of a television receiver.
- 207. Describe the features of a video deck.
- 208. Distinguish the three defects in reception which are not due to fault in TV receiver.
- 209. Give reasons for the following defects in reception, in a TV set (Ghost, snow and R.F. interference)
- 210. Name and identify the controls and external connection of video deck.
- 211. Write the procedural steps required for operating (a) video deck
  - (b) T.V. receiver.

#### Unit - 9. Multi Image and Multi Media.

- 212. Classify by definition multi-imagery.
- 213. Classify by definition multi-media.
- 214. List four advantages of multi-imagery presentation.
- 215. State five purposes served by multi-
- 216. State three points to be considered for effective presentation of multi imagery.
- 217. Explain the method adopted for recording narrations and to provide for (manual and automatic) sound slide synchronisation in audio tape.
- 218. Identify two topics in his own trade area where multimedia approach is applicable.
- 219. Differentiate between the conventional approach and multi media approach.
- 220. Organize and present a multi media lesson.

# Unit\_- 10. Physical facilities and Visuals for Projected aids.

- 221. Determine the minimum letter size for visuals, for different viewing distances for projected aids.
- 222. Indicate the spacing to be given between letters when writing projectuals.
- Determine the correct viewing distance based on the screen size for the following
  - a) slides
  - b) overhead projector
  - c) motion picture
  - d) television
- 224. State the five important considerations for deciding on the viewing distance for projected image.
- 225. Discriminate letter height of artwork for slides, transparencies and motion picture.
- 226. Name three surfaces which are acoustically good.
- 227. State four aspects which can control the sound effects within a class room.
- 228. State three methods which can help to effectively control light.
- 229. State three instructional advantages of lighting.

#### MODULE - IV.

#### DUPLICATING PROCESSES

#### Unit - 1. Forms of Reproduction Process

- 230. Explain the duplication process.
- 231. List five methods of duplicating written instructional materials.
- 232. Select proper method for producing copies from original if the number of copies required are:
  - a) Below ten copies.
  - b) More than ten but less than hundred copies.
  - c) More than hundred copies.
- 233. State three methods of preparing stencil for duplication.

### Unit - 2. Spirit Duplication.

- 234. Identify the parts of the spirit duplicator.
- 235. Prepare an original master copy using duplograph master sheet and hectograph carbon sheet for a given illustration.
- 236. State the procedure for operating the duplicator correctly.
- 237. List at least three precautions to be observed in using the spirit duplicator.
- 238. Arrange in the serial order all the operations for "spirit duplication."
- 239. Operate the "spirit duplicator" and take five copies.

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## Unit - 3. Stencil Duplication.

- 240. Name the four essential elements for mimeographing.
- 241. State the basic principle of stencil duplication
- 242. Name the three methods of preparing stencils
- 243. State the position of ribbon when stencils are typed.
- 244. Identify the parts of a Stencil duplicator.
- 245. Explain that special care to be taken while re-running a stencil to prevent creasing.
- 246. Prepare a stencil with illustration (by hand).
- 247. Explain the procedure for operating the "Gestetner 320 stencil duplicator" in the correct order.
- 248. Mount the stencil on "Gestetner 320 stencil duplicator and take 10 copies.

## Unit - 4. Electronic Stencil Scanning.

- 249. State the advantages of electronic stencil scanner.
- 250. Name the type of stencil used in electronic scanner.
- 251. Identify the parts of an electronic stencil scanner.
- 252. State the situations in which the speed variations are much in a stencil scanner.
- 253. Explain the method of producing over head transparency in electronic stencil scanner.
- 254. Arrange in the serial order the operation for stencil scanning using an "electronic stencil scanner".
- 255. Operate an "electronic stencil scanner" and scan a drawing to prepare a stencil.

## Unit - 5. Photo: Copying.

- 256. Name the four types of photo copying process.
- 257. Describe the situation in which electropy static copies can be advantageously used.
- 258. State when a translucent carrier sheet is to be used for electro-static copying.
- 259. State the precautions to be observed for protecting copy paper.
- 260. Explain the proportion of toner concentrate and dispersent used for preparing developer.
- 261. Identify the operating parts of Lennex-200 copier.
- 262. Arrange in the serial order the performance check list items for operating a "Lennex-200 copier".
- 263. Operate a "Lennex-200 copier".

#### MODULE - V. AUDIO AIDS

#### Unit - 1. Teaching with Audio Aids.

- Name the three kinds of audio experiments used for instructional purposes.
- 265. State four methods which can be used in teaching for improving listening skills of learners.
- 266. List the five steps involved in presenting mediated materials.
- 267. State what should be the speed of speech for effective listening.
- 268. Indicate the position of verbal communication as indicated in "Dales Cone of Experience."

#### Unit - 2. Principles of Audio Equipment.

- 269. Name the five factors which influence the quality of sound production.
- 270. State the range of hearing capacity for normal human ear.
- 271. Differentiate between monaural and stereo systems.
- 272. Describe the function of tone control in a tape recorder.
- 273. State what should be the correct height of placing speakers.
- 274. Select the type of microphones suited for picking up sound from different speech directions.
- 275. Classify microphones based on the technical classification.
- 276. State the three essential characteristics to be considered while replacing microphones.

#### Unit - 3. Tape Recorders.

- 277. Describe three functions of heads used in tape recorders.
- 278. State the function of each head of a tape recorder with three heads.
- 279. Name the two audio modes commonly used for determining the length of tape, for recording.
- 280. State the speed at which common cassette tape recorders, are used.
- 281. State how playing time is determined in cassette tape recorders.
- 282. State the effect of speed for the quality of sound reproduction.
- 283. Distinguish between full track, dual track and quarter track tapes.
- 284. Describe how accidental erasing of tape is prevented.
- 285. Explain the method of erasing dual track tape when a bulk head is not used.
  - 286. Explain the method of splicing tape.
  - 287. Describe how tone control is operated when tapes are duplicated.
- 288. Explain the best method of duplicating tapes under manual conditions.

#### Unit - 4. Sound Recording Principles.

- 289. State the reason for avoiding taping (recording) near fluorescent light or high voltage power lines.
- 290. Suggest methods to improve accoustic conditions of a room which is not otherwise accoustically treated.
- 291. Distinguish between monophonic and stereophonic recording.

#### Unit - 5. Operating Tape Recorders.

- 292. Identify the operating controls of a cassette recorder (National Panasonic).
- 293. Identify the parts and controls of a reel to reel tape deck (Sony).
- 294. Arrange in the serial order the operations required to operate.
  - a) Stereo cassette recorder (National Panasonic)
  - b) reel to reel tape deck (Sony)
- 295. Operate a stereo cassette recorder (National Panasonic).
- 296. Operate a reel to reel stereo deck (Sony).

#### Unit - 6. Record Player.

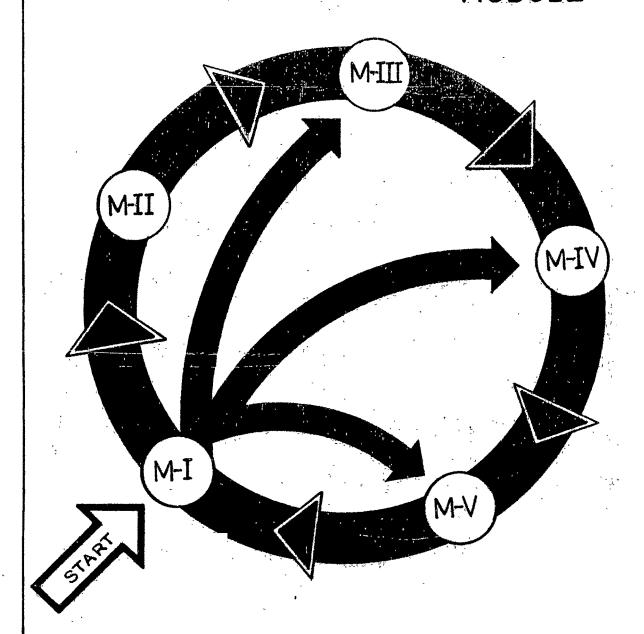
- 297. State the commonly used speeds of a record player.
- 298. Identify the parts of common record player.
- 299. Arrange in the serial order the operations required to operate HMV Fiesta.
- 300. Operate a record player (HMV Fiesta)
- 301. Record on a stereo reel to reel tape

  deck music from a stereo recorder 
  HMV Fiesta to Soni reel to reel tape

  deck.
- 302. Identify a monophonic and stereophonic record player.
- 303, Identify 33rpm, 45rpm and 78 rpm records.

## AUDIO VISUAL EDUCATION

MODULE -



KRISHNAN.

Use separate response sheets provided for Section A and B. Answer Section A first, hand it over to your instructor, then Section B.

DO NOT write anything in this question paper. RETURN the question paper to the instructor.

CIRCLE appropriate letter(s) a,b,c or d on the response sheet for questions on Section A.

1. Which statement best defines the term:

#### Instructional Technology ?

- a. It is a process to systematically design, instruct and evaluate instruction to bring about more effective instruction.
- b. It is the system of principles and procedure adopted for preparation of instruction using hardware, for technology courses.
- c. It is the technology of principles and procedures for the design and preparation of audio visual materials.
- d. It is the set of principles and procedures for the preparation of instructional objectives in behavioural terms for craftsmen training courses.
- 2. Which one of the following statements best defines the term:
  <u>Instructional goal</u>?
  - a. Instructional goal is a broad and general statement to determine what is to be done or achieved by instruction.
  - b. Instructional goal is a statement that describes the instructional career of the instructor.
  - c. Instructional goal is a statement that describes the purpose of conducting trade tests for theory subjects for craftsmen training courses.
  - d. Instructional goal is a statement of instructional intent required for meeting a need i.e., preparing objective type questions.

- 3. Which of the following statement best defines the term:
  Behavioural Objectives ?
  - a. Behavioural Objectives is a broad and general statement to determine what is to be done or achieved by instruction.
  - b. Behavioural objective is a description of the aim of Educator.
  - c. Behavioural objetive is a statement of performance the instruction is to produce, stated in a broad general term or precise behavioural term.
  - d. Behavioural objective is a description of the behaviour the instructor.
- 4. What is the main difference between instructional goal and behavioural objective? (Circle the appropriate letter a,b,c, or d)
  - a. From needs, behavioural objectives are stated in precise terms, and then the instructional goals are identified.
  - b. Instructional goals are stated in more precise terms than behavioural objectives.
  - c. Instructional goal is stated in general term while the behavioural objective is stated more precessly.
  - d. Instructional goal is a broad statement or "What ought to be " (future need) while behavioural objective is a broad statement of "What are the present need of the instructions."
- 5. We write behavioural objectives: (Circle appropriate letter a,b,c or d)
  - a. To prepare ground work for writing instructional goals.
  - b. To describe behaviour in terms of both trainee and instructor performance.
  - c. To describe behaviour in terms of instructor performance.
  - . d. To describe behaviour in terms of trainee performance.
- 6. Which of the following statements are NOT classified as behavioural objectives? (Circle the letter ) a,b,c or d )
  - a. The trainee will know filing.
  - b. The trainee will identify the data charts from other charts given to him.
  - c. The trainee will learn to use a slide projector.
  - d. The trainee will write the correct procedure in the order of performance for cleaning a carburetter.

- 7. What are the three advantages to be gained from interactive instruction? (Circle the appropriate letter a .b.c or d).
  - a. Keep instructor active, tests every objective, validate instruction.
  - b. Keep trainee active, instructor and trainee determine progress at all times, and instructor adopts to trainee's needs.
  - c. Instructor and trainees determine progress, instructor tests sample objectives, trainees judge instructor ability.
  - d. Keep instructor active. Instructor determinesprogress in the final examination, and instructor followstest and available books.
- 8. The purpose of validation is to:
   (Circle correct response- a,b,c or d )
  - a. Make sure our instruction is effective.
  - b. test whether students can understand.
  - a. check continually on the trainee's progress.
  - d. None of the above.
- 9. Which one of the following statement gives the reason that it is easier to validate interactive instruction?

  (Circle correct response a,b,c or d).
  - a..because interactive instruction is a two way communication.
  - b. we design instruction based on needs of the job.
  - c. we can monitor the trainee's progress continuously, find the deficiencies, correct the trainee and revise instruction.
  - d. we depend on the instructor's capacity to prepare objective questions.
- 10. What are the three key components of Instructional design ? (Circle a,b,c or d for correct answers).
  - a. Instructional goals, instructional objectives, instructional needs,
  - b. Instructional goals, instructional objectives, validation.
  - c. Specific objectives, interactive instruction, validation.
  - d. Instructional need, instructional goal and interactive instruction.

- 11. Which of the following represents the best definition of "Systems Approach to Institutional Design?" (Circle the correct one a,b,c or d)
  - a. Systems Approach to Instructional Design is a process which calls for the design of instructional materials for large scale usage in correspondence courses through mass media, as the instructional materials thus developed will not fit for class-room usage.
  - b. Systems Approach to Instructional Design is a process which increases the efficiency of the instructional system by designing and evaluating the total process of learning and instruction in terms of instructional goals stated in general terms.
  - c. Systems Approach to Instructional Design is a process which calls for the design of audio visual aids required by the instructor in his instruction, according to the text book available with him, no matter what the instructional objectives were.
  - d. Systems Approach to Instructional Design is an orderly process of developing instruction to give pre-determined learning experiences based on learner oriented instructional objectives and evaluating the total process; revising it from feedback and continue the cycle until the system attain maximum efficiency to make learning easier; faster and more lasting.
- 12. By job performance requirements, we mean: (Circle correct letter a,b,c or d).
  - a. everything the skilled worker must do on the job.
  - b. degree requirements of prospective trainées.
  - c. job description prepared by administrative personnel.
  - d. Stating the method of goal free evaluation of a job
- \*\*\* First and foremost in the development of instructional materials is the task analysis. We do task analysis to find the job performance requirement i.e. the skills and other behaviours exhibit by the worker on the job. There are four types of task analysis. They are:
  - a. Stimulated task analysis
  - b. content analysis.
  - c. observation task analysis
  - ; d. interview analysis.

Four situations are given below

Categorise each of the following as one of the above four types of task analysis. You may repeat the type of task analysis applicable or do not use one type at all.

- 13. You are an expert electronics technician. From your own experience on the subject, you are analysing certain curricula for testing with different digital and analogue multimetres.
- 14. You are entrusted with the design of instruction for operating a majox photocopier, and you are not an expert. First and foremost in the process you decide to completely go through the instructional manuals and other relevant literature supplied by the manufacturers.
- 15. A numerical control lathe has been ordered for your institute, and you are given the task of formulating training schemes with that lathe. But you are not an expert in the field. You are not having the relevant literature, nor has any one with whom you can discuss about the issue. You have a worker who can do the job, but he is not conversant with the language. you have decided to .....
- 16. You do not as know anything about optics, and you are required to do task analysis forgrading the lenses, by the industry next door who are manufacturers of lenses. You have experts to consult for this task.
- 17. We determine training requirements:
   (Circle the correct item-a,b,c or d )
  - a. from past experience of instructor.
  - b. from job content description.
  - c. by subtracting trainee's entry level performance from job performance requirements.
  - d. all the above.
- 18. Which one of the following is the definition of a criterion test? (Circle correct answer a,b,c, or d)
  - a. It is a sample of multiple choice test items for skill training.
  - b. It samples trainee's learning by testing objectives.
  - c. A criterion test is the same as norm referenced test given at the end of the semester.
  - d. A criterion test is the one that is designed to test the objective.

- 19. Which one of the following <u>differentiates</u> criterion test from achievement test? (Circle correct response a,b,c or d)
  - a. A criterion test is shorter than an achievement test.
  - b. A criterion test covers some of the objectives, while the ahievement test covers all the objectives.
  - c. A criterion test covers all of the objectives and the achievement test also tests all the stated objectives.
  - d. While a criterion test, tests every objective, an achievement test, covers only a certain percentage of the items.
- 20. Explain when the criterion test items are valid ? (Circle correct response a,b,c or d )
  - a. it measures absolute standards of quality and does not depend upon a relative standard.
  - b. it tests every objectives.
  - c. the criterion test item matches the performance stated in the objectives.
  - d. every trainee gets 100 % in the test.
- 21. Every-thing in the lesson plan should be evaluated in terms of its usefulness in helping the trainees. (Choose a,b,c or d and circle it)
  - a. Understand course content.
  - b. Analyse job performance requirements.
  - c. reach course objective.
  - d. score 190 % in the final examination.
- 22. Which one of the following statement is <u>classified</u> as the 'purpose of a job aid'. (Circle a,b,c or d for correct response)
  - a. it eliminates unnecessary training in order to make the trainees more productive in a short span.
  - b. it prevents waste of training time.
  - c. it finds out job classifications.
  - d. it eliminates the presence of instructor from the teachinglearning situation.
- 23. Which one of the following would you <u>categorise</u>, as developmental testing ? (Circle a,b,c or d for correct response)
  - a. test during the design of instruction.
  - b. test at the end of the course.
  - c. test of the validation of course materials.
  - d. test to find out the entry level of the trainees,

- 24. Which one of the following would you categorise as field testing? (Circle correct response a,b,c or d)
  - a. first real world test of our instruction.
  - b. only ... critical phase of validation.
  - c. mid-term test of our instruction.
  - . d. summative evaluation of the final product
- 25. Which one of the following reasons gives you the need to have the follow up data: (Circle a,b,c or d for correct response)
  - a. to maintain always the effectiveness of the course.
  - b. to indicate whether job requirement has changed.
  - c. to find out whether course needs to be changed.
  - d. to get feed back.
- 26. Selection of media is dependent on three major factors: which of the following determines the selection of media?

  (Circle a,b,c, or d for correct response)
  - a. task analysis, task classification and specific objectives.
  - b. specific objectives, content and the method of instruction.
  - c. content, projection equipment and various teaching steps.
  - d. method of instruction, presenting information and testing.
- 27. Which of the following differentiates stimulus and response ? (Circle correct response a,b,c or d)
  - a. each specific sensation or stimulus is an exact reaction to a specific response.
  - b. each specific sensation or stimulus is the same as each specific reaction or response.
  - c. stimulus is anything that arouses you or evoke reaction, that is to say, elicit response.
  - d. the guiding of learning by verbal material is called response and the teachers questions stimulus.
- 28. By projected aids, we mean: (Circle correct response a,b,c, or d)
  - a. aids prepared by projection
  - b. aids that require projection equipment for use.
  - c. aids that are models, mock ups and other three dimensional aids.
  - d. aids which does not require projection equipment.
- 29. By non projected aids we mean: (Circle correct response a,b,c or d)
  - a. Aids that are used without aid of any projection equipment.
  - b. aids that are prepared only with projection equipment.
  - c. aids that are prepared and used with projection equipment only.
  - d. aids that can be used with or without projection equipment.

- 30. Which of the following is <u>not</u> the correct definition of perception ? (Circle letter a,b,c or d which gives correct definition)
  - a. perception is a two way communication between instructor and trainees.
  - b. Perception is a process of recognition by which one apprehends or understands through one of the senses.
  - c. perception is a process in which we do not use our senses, to apprehend or understand objects and events.
  - d. perception is learning theory.
- 31. We relate perception to the design of audio-visual aids by; (Circle a,b,c or d for correct answer)
  - a. providing perceptual experiences in terms of the teachers past experiences, and present situation.
  - b. providing perceptual experiences in terms of learners past experiencs, and present environment.
  - c. providing stimulus different from the kind of experience. the learner has.
  - d. providing experiences that the best boy in the class has, so that the poorest boy can become equal to him, by using the audio visual aids, so designed.
- 32. List the three levels of local production of audio visual materials. (Circle a,b,c or d for correct answer)
  - a. copying, original preparation and designing.
  - b. mechanical level, creative level and design level.
  - c. individual level, group level and school level
  - d. institutional level, district level and state level.
- 33. Which of the following statemetht does not state correctly the process of learning? (Circle correct response a,b,c or d)
  - a. Learning takes place only when given knowledge of results.
  - b. Learning takes place when behaviour is modified.
  - c. Learning takes place when an individual has acquared new knowledge.
  - d. Learning takes place when an individual acquired new skill.
- 34. Which of the following groups give correctly the seven components of BERLO'S MODEL OF COMMUNICATION ? (Circle a,b,c or d for correct answer)
  - a. Sender, Receiver, Channel, Noige, Feedback, Brain, Senses.
  - b. Source, Encoder, Channel, Decoder, Destination, Noise, Feedback.
  - c. Source, Destination, Message, Channel, Noise, Feedback, Sanses.
  - d. Source, Encoder, Message, Nervous system, decoder, Destination, Noise.

- 35. Which of the following are examples of stimuli ? (Circle a,b,c or d for correct answer)
  - a. Your answer to this test.
  - b. Lifting a telephone when it rings.
  - c. Content presented to learner like this unit (sound slide)
  - d. stopping at red traffic signal.
- 36. Which one of the following gives the two major families of learning theories ? (Circle a,b,c or d for correct answer)
  - a. behaviourist and connectionist
  - b. Behaviourist and cognitive
  - c. stimulus response and connectionist
  - d. gestalt and cognitive.
- 37. Which one of the following group gives the three domains of behavioural outcome categorised by BLOOM ? (Circle a,b,c or d for correct answer)
  - a. attitude, knowledge and skill.
  - b. signal learning, concept learning and rule learning.
  - c. cognitive, affective and psychomotor.
  - d. attitude, value, appreciation.
- 38. Which of the following statement is NOT a difference . between audio visual aids and media ? (For correct answer circle a,b,c or d )
  - a. an audio visual aid is a device that assists and instructor or teacher whereas media are physical means of conveying instructional inputs.
  - b. an audio visual aid is used by an instructor as part of his instructional strategy or as an individual entity of his own, while media is used as inputs within an instructional design determined by the instructional design requirements.
  - c. audio visual aids are used as supplements to instruction or for enrichment purposes while media are integrated components of a system.
  - d. audio visual aids is an aid used during the instruction by the trainees and the instructor, while media helps only the trainees to do individualised learning without the teacher.

- 39. Which one of the following is the best way of estimating whether learning has taken placeafter you are given a course in operating 16 mm motion picture?

  (Circle a,b,c or d for correct response)
  - a. Observing whether you are able to operate the projector correctly, which you were not able to do before the course.
  - b. Assuming that you know to operate the projector, because you have attended the course without being absent.
  - c. Asking you, if you have learned, to operate the projector.
  - d. Asking your classmate if you have learned and can operate the projector.
- 40. A teacher is to start the first class for his trainees a TV assemblying and checking.

All necessary equipment and tools have been set up for demonstration by the attendant. The instructor has with him teaching tapes, a video programme on the subject, quiz and answer to the quiz and the equipment-TV tube, transistors, IC, and other parts — and tools. Categorise the last item i.e. the equipment and tools as one of the following.

- a. audio stimuli
- b. visual stimuli
- c. audio visual stimuli
- d. visual response.

AFTER HANDING OVER THE RESPONSE SHEET FOR SECTION A, GO TO SECTION B.

AUDTO	VISHAL	EDUCATION
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Audio Visual Education

Introduction to Instructional Design

Module I : Unit 1-5

Trade: All

Section: 'B'
Time: 40 mts.

USE SEPARATE RESPONSE SHEETS FOR SECTION 'B'DO NOT WRITE ANYTHING IN THIS QUESTION PAPER RETURN THE QUESTION PAPER TO THE INSTRUCTOR WITH RESPONSES.

- 41. Define Media.
- 42. Define Audio Visual Aids.
- 43. Re-arrange the following in the order in which they are to be followed for instructional design. Write against the alphabet a,b,c,d,e,f,g, & h the re-arranged number according to the order.
  - a. job performance requirements
  - B. identify training requiremtns
  - c. define course objectives
  - d. design instruction
  - e. construct criterion test.
  - f. field implementation
  - g. validate instruction
  - h. take follow up action.
- 44. Categorise the following as aids that can be heard, seen and heard and seen. Write in the response sheet against a,b and c.
  - a. taped commentary
  - b. charts.
  - c. motion picture
- 45. Categorise the following as projected aids, non-projected aids, by writing P for projected aid and NP for non-projected aid and add S to those items with sound attached to it. Write in the response sheets against a,b,c .... p.
  - a. Posters
- f. Chalkboard.
- k. mockups

- b. Charts
- g. Filmstrips
- 1. maps, graphs

- c. Radio
- h. Slides.
- m. Overhead transparency

- d. Models
- i. Television
- n. Flat picture.

- e. Recordings
- j. Sound slide
- o. motion picture
- p. audio tapes.

46. List five recognised contributions of audio visual aids to learning.

(Write the answers in the space provided in the response sheet)

- 47. List the five senses through which welearn.

  (Write the answers in the space provided in the response sheet)
- 48. Re-arrange the following in the <u>order</u> in which they are as per Edger Dale starting with no.1 for the item on the base, and 11 item on the apex. (Write against alphabets given in the response sheet the number in the order). You must identify first No.1 and then No. 11.
  - a. Direct purposeful experience
  - b. dramatised experiences
  - c. contrived experiences
  - d. motion picture.
  - e. verbal symbols
  - f. radio, recordings and still pictures
  - g. Chalk-board, charts, maps, diagrams
  - h. television
  - i. exhibits
  - j. field trips
  - k. demonstrations.
- 49. Taxonomics or classification systems have been developed by Bloom, Krathwohl, Kibler and Dave for Cognitive, Affective and Psychomotor domains. These classifications have been given below. You should relate each of these to their author, and classify them as cognitive, affective and psychomotor. In the response sheet, you may write against each alphabet, number 1 to denote cognitive domain, No.2 to denote affective domain, no.3 to denote psychomotor domain, letter A to denote the author Bloom, B to denote Krauthwohl, C to denote Kibler and D to denote Dave.
  - a. Imitation, manipulation, precision, articulation and naturalisation.
  - b. Knowledge, comprehension, application, analysis, synthesis and evaluation.
  - c. Receiving, responding, valuing, organisation and characterisation.
  - d. Gross bodily movements finely co-ordinated movements, non-verbal communication and speech behaviours.

Module - I. Sec.B CT-2. Jerome S.Bruner has related three kinds of experiences three major modes of learning. They are:

### three kinds of learning experiences

three modes of learning

A. direct experiences

- a. symbolic
- B. pictorial experiences
- b. iconic
- C. highly abstract experiences
- c. enactive.

Edgar Dale, in his cone of experience classifies various types of instructional materials according to the relative degree of experiences-direct, pictorial and highly abstract - and the three modes of learning made by Bruner-enactive, iconic and symbolic.

Now in the response sheet, for questions 50-60, writedown against the numbers of the items given below i.e. 50-60 representing the eleven range of Dales Cone of experiences the alphabet in capital letter (A,B or C) indicating the kind of learning experiences and the alphabet in lower case (small letters) (a,b or c) indicating the modes of learning that are related to each of these eleven items.

- 50. Chalk-board, Charts, Maps, diagrams.
- 51. Direct purposeful experieces
- 52. Dramatised experiences
- 53. Demonstrations
- 54. Verbal symbols
- 55. Recording, Radio, Still Pictures.
- 56. Educational television.
- 57. Study trips.
- 58. Contrived experiences
- 59. Exhibits
- 60. Motion pictures.
- 61. Categorise the following as Cognitive, Affective, and Psychomotor. Write against the numbers given in the response sheet C for cognitive, A for affective, and P for psychomotor.
  - 1. shows kindness to animals
  - 2. lifts heavy weight
  - 3. cycles very fast
  - 4. recalls telephone numbers correctly
  - 5. recites geetha without mistakes.
  - 6. always rudely behaves with the teachers.
- 62. You are going toteach your students on assemblying and installing a numerical control lathe. Under which category of activities you would design your institution?

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Module I. Sec.B CT-3.

Er

63.	List three categories students, for each of	of human behaviours exhibited the following aspects.	by your
	1.	Knowledge.	

7	•	Knowreage
2	•	Skill.

- Attitude.
- 64. Certain performances are listed below. Categorise them as C for cognitive, A for affective and P for Psychomotor. Each item may or may not be classified undermore than one or two categories.
  - a. Removes thermometer from container by holding non bulb end.
  - b. Wipes thermometer downward from non bulb end with fresh wiper.
  - c. Shakes thermometer down to less than 94°F while holding non bulb end.
  - d. Places thermometer bulb end under patients tongue without disturbing the patient.
  - e. Tells patient not to bite the thermometer.
  - f. Leaves the thermometer in the patients mouth for three minutes.
  - g. Tells patient to open the mouth
  - h. Removes thermometer from patient's mouth by grasping non bulb end.
  - i. Reads temperature to nearest decimal of a degree.
  - j. Records temperature reading on the chart.
  - k. Cleans the thermometaer and replaces in container.

Trade :	RESPONSE	SHEET	Module - I Unit 1-5 Section B.
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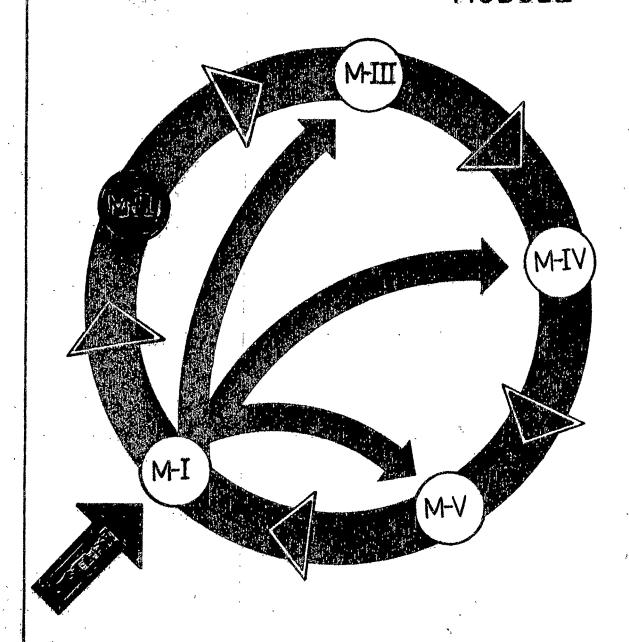
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# AUDIO VISUAL EDUCATION MODULE -



KRISHNAN.

Module II

CRITERION TEST

SECTION-A
Time: 40 mts.

Use separate answer sheets for Section 'A'. Section 'B', Section'C' DO NOT write anything on this question paper.
RETURN the question paper to the Instructor with the response sheets.

Answer Section 'A' first, hand it over, then Section 'B', Answer Section 'C' separately on practical assignment sheets.

·CIRCLE appropriate letter(s) a,b,c or d for Section 'A' on the response sheets.

- 1. According to the principle of design fewer elements in a visual will be more pleasing, this is referred as:
  - a. Dominance
  - b. Balance
  - c. Harmony
  - d. Simplicity
- 2. When an important idea of a visual is to stand out from rest of the elements this is known as:
  - a. Simplicity
  - b. Harmony
  - c. Dominance
  - d. Balance
- 3. When the elements of a visual creates an equilibrium without being static it is known as:
  - a. Formal balance
  - b. Unity
  - c. Pattern
  - d. Informal balance
- 4. The relationship existing among the various elements of a visual when they all function together is known as:
  - a. Unity
  - b. Pattern
  - c. Dominance
  - d. Balance

- 5. Showing differences through size, relationship, perspective, colour etc., is known as:
  - a. Dominance
  - b. Variation
  - c. Pattern
  - d. Simplicity
- 6. The principle to be followed while organising the elements in a visual to avoid monotony and to show differences is known as:
  - a. Pattern
  - b. Dominance
  - c. Simplicity
  - d. Harmony.
- 7. A feature in a visual which collects the elements together and also direct the viewer to study the visual in a specific sequence is a Visual tool known as:
  - a. line
  - h. texture
  - c. colour
  - d. space
- 8. The visual tool that is to emphasise in order to catch attention by differentiation in dimension is known as:
  - a. Space
  - b. Size and shape
  - c. Line
  - d. Texture
- 9. The visual tool that has definite limits and boundaries for visual design is known as:
  - a. Size and shape
  - b. Line
  - c. Space
  - D. Colour
- 10. One of the visual tools which can serve as a replace for sense of touch to be depicted while designing a visual is:
  - a. Texture
  - b. Shape
  - c. Colour
  - d. Line

- 11. Which one of the following visual too, when used indiscriminately while designing visuals will result in poor contrast
  and lead to repulsion:
  - a. Colour
  - b. Line
  - c. Space
  - d. Shape and size
- 12. What is the minimum letter size of a visual displayed in front of a class room 10 M deep so that it can be read by a person sitting at the last row:
  - a. 20 mm
  - b. 25 mm
  - c. 50 mm
  - d₄ 6 mm
- 13. Which one of the following is the single most important reason, as to why legibility standards must be considered for any visual?
  - a. So that they can be read easily by audience sitting at an anticipated maximum distance.
  - b. So that they can be read easily by audience sitting in the middle of the class room.
  - c. So that they can be read with ease by students sitting in the front row of the class room.
  - d. None of the above.
- 14. Letter style when written slant is called:
  - a. Gothic
    - b. Italics
    - c. Textural
    - d. Roman
- 15. Which one of the following will least help to bring out contrast between letters and background ?
  - a. Black on darker coloured background
  - b. Light coloured letters on dark background
  - c. Dark letters on lighter coloured background
  - d. Light coloured letters with dark shadow.

16. Which type of graph is best suited for the following:

\*Expenditure on audio visual equipment incurred for our college in 1980-81 is:

Record players: 20%; Tape recorders: 30%; Slide projectors: 15%; Opaque Projectors: 10%; Motion Picture Projectors: 25%

- a. bar graph
- b. pie graph
- c. line graph
- d. pictorial graph
- 17. The type of graph for comparing and contrasting many subjects is:
  - a. pie graph
  - b. bar graph
  - c. line graph
  - d. pictorial graph
- 18. A graph in which a circle is divided into different sectors and each one representing a component part of the whole is:
  - a. pie graph
  - b. bar graph
  - c. line graph
  - d. pictorial graph
- 19. A graph which uses realistic representational figures is known as:
  - a. pictograph
  - b. bar graph
  - c. pie graph
  - d. line graph
- 20. A chart which is used to explain the sequence of events as in the case of a manufacturing process of some articles is:
  - a. data chart
  - b. flow chart
  - c. pictorial chart
  - d. phantom view chart
- 21. A chart which can be used to show the internal details without obliterating the outer surface is:
  - a. animated chart
  - b. phantom view chart
  - c. flow chart
  - d. data chart

- 22. A chart in which the various parts of a component are deployed in the sequence and extended position in which they exist when assembled is:
  - a. phantom view chart
  - b. data chart
  - c. flip chart
  - d. exploded chart
- 23. A sequence of information which would be difficult to be shown on a single chart is to be presented to your students: which one of the following chart will you prepare?
  - a. Strip chart
  - b. flip chart
  - c. schematic chart
  - d. flow chart.
- 24. The chart displayed in the electrical section indicating the thickness of wires in British standards and equivalent Indian standards wire gauge numbers is called a
  - a. True chart
  - b. Animated chart
  - c. Schematic chart
  - d. Data chart
- 25. An enlarged photograph of a machine component along with names of various parts is put in the form of a chart. This type of chart is called
  - a. Exploded chart
  - b. Pictorial chart
  - c. Schematic chart
  - d. Animated chart
- 26. A chart showing an electrical circuit containing outline figure and standard symbolic representation is called a
  - a. Data chart
  - b. Diagramatic chart
  - c. Exploded chart
  - d. Animated chart
- 27. In a situation where diagramatic outlines and the image representation of the object is to be used for the purpose of explaining the function of the object, which one of the fellowing will you make?
  - a. Exploded chart
  - b. Flow chart
  - c. Animated chart
  - d. Schematic chart

- 28. In a production process various bye-products are also produced. Select a suitable type of chart which can depict the various bye-products coming out of the main process from following:
  - a. Animated chart
  - b. Tree chart
  - c. Phantom view chart
  - d. Exploded chart
- 29. For showing the movement of the shutter over the aperture in a 16 mm projector, you are to use a chart. Which one of the following would you use ?
  - a. Tree chart
  - . Animated chart
  - c. Diagramatic chart
  - d. Exploded chart
- 30. A teacher wanted some means to represent the progress made by each student of his class the relative position of individual student with respect of rest of the class. Which one of the following do you consider will best meet the requirement.
  - a. Schematic chart
  - b. Poster
  - c. Graph
  - d. Diagramatic chart
- 31. You have to explain to your students about the lathe parts and their functions. Which one of the following will be your choice as a teaching aid.
  - a. Poster
  - b. Chart
  - c. Graph
  - d. Cartoon
- 32. Eye accidents in your section is increasing at an alarming rate. One of the methodsyou have decided is to display some graphic visual which can help to instill the habit of using safety goggles while working. Which one of the following do you think can be used to quickly convey the message.
  - a. Poster
  - b. Graph
  - c. Chart
  - d. Exploded chart

- 33. If you are looking for a graphic material, which has certain amount of humour and good communication input. Which one of the following will be your choice.
  - a. Shart
  - b. Real photograph
  - c. Graph
  - J. Cartoon
- 34. Select the statement among the following, which you consider is not a characteristic of posters.
  - a. self contained message
  - b. design and colour
  - c. supported by detailed explanation
  - d. attractiveness
- 35. Which one of the following is <u>not</u> considered as a requirement of cartoons?
  - a. the symbols must be clear
  - o. simplicity
  - c. should contain detailed explanation
  - d. should meet the experience level of audience.
- 36. Which one of the following material is not a suitable material for making chalkboard surface ?
  - a. ground glass
  - b. smooth polished wooden surface
  - c. canvass
  - d. plain glass
- 37. You have to paint a newly prepared chalkboard to be used in classroom. Among the following colours available, which one will be your choice.
  - a. Black
  - b. Green
  - c. Yellow
  - d. White
- 38. The visibility of matters written with foloured chalk on chalk-boards depend very much on the colour of the board itself. Which one of the following colour boards will be your selection if you are interested in <u>ACTUAL COLOUR</u> visibility.
  - a. Green
  - . b. Yellow
    - c. Red
    - d. White

- 39. Students usually like a chalk board work, when it is free of flourishes and letters are not too close. What in your opinion is the reason for this:
  - a. It is easy to write in this manner
  - b. It is more attractive.
  - c. It is more legible
  - d. It can be written faster
- 40. Chalkboard summary is essential to highlight the important aspects of a lesson. What do you think is the proper way of doing this, if you are the teacher
  - a. in note form
  - b. in essay form
  - c. dictated
  - d. written before the class assembly
- 41. For painting a chalkboard, an expensive good glossy enamel paint available was not used by a teacher because
  - a. It is expensive
  - b. It produces glare
  - c. Enamel paints cannot produce contrast.
  - d. Erasing is difficult
- 42. For drawing horizontal strokes the chalk length should be kept.
  - a. Inclined downwards
  - b. Horizontal
  - c. Inclined upwards
  - d. Inclined sidewards
- 43. When you draw horizontal strokes, the line at the end bends up, because:
  - a. body sway towards back, not given
  - b. right leg not bent as the line progressed
  - c. taking body close to chalkboard
- 44. While writing on chalkboard the chalk piece is rolled to:
  - a. avoid wastage of chalk
  - b. prevent frequent break of chalk
  - c. maintain uniform thickness in writing
  - d. reduce strain on the figure
- 45. Template and pounce pattern are used for
  - a. prepared diagrams
  - b. progressive diagrams
  - c. helping students to draw on sheets
  - d. none of the above

- 46. A diagram which is drawn on chalkboard controlling to fit with the rate of presentation is:
  - a. strip diagram
  - b. exploded diagram
  - c. progressive diagram
  - d. line diagram
- 47. The type of diagram in which a series of diagrams each one developing from the previous one, but with distinct features is called:
  - a. exploded diagram
  - b. series diagram
  - c. progressive diagram
  - d. strip diagram
- 48. While preparing for a chalkboard presentation on a series of intricate parts of a component or a machine you are required to explain with a diagram various elements in the assembly and their location. The type of diagram you will prepare and use will be:
  - a. line diagram
  - b. strip diagram
  - c. progressive diagram
  - d. exploded diagram.
- 49. Which one of the following is the definition of the bulletin
  - a. A bulletin board like a notice board is to paste notices meant for students about their assignments examination dates etc.,
  - b. A bulletin board is to pin various advertisements about availability of sale articles.
  - c. A bulletin board unlike notice board displays instructional informative visuals and kept for fixed short duration.
  - d. A bulletin board unlike notice beard displays informative visuals and kept for longer duration to enable everyome to see many times.
- 50. A purpose of a bulletin board to an instructor is to
  - a. use in place of black board
  - b. replace chalk board activity
  - c. use for follow up of chalk board.
  - d. use in library to exhibit books.

- 51. Which one of the following is not a salient feature of bulletin board.
  - a. A bulletin board is one of the least expensive visual aids.
  - b. It may be used on a class room walls, verandah or hallway.
  - c. It is used to exhibit pictures for individual study only for the trainees.
  - d. It may be used to exhibit pictures, clipping and other materials for both group and independent studies.
- 52. The best material for making bulletin board is
  - a. Highly polished teak wood
  - b. Any hard plywood
  - c. Frosted glass
  - d. Any soft board
- 53. Which one of the following is not a point to be considered while setting up and locating bulletin boards used for instructional purposes.
  - a. Locate it in a prominent place in or near the staff room.
  - b. Locate it in central place near the class room
  - c. Locate it in a well lighted place
  - d. Provide background with neutral colour.
- 54. A convenient height for a bulletin board is
  - a. 75 cm from floor level
  - b. 200 cm from floor level
  - c. 300 cm from floor level
  - d. 125 cm from floor level
- 55. Which of the following materials are not suited for making flannel boards.
  - a. Flannel
  - . . Felt
    - c. Corduroy
    - d. Terrene
- 56. The best material for making flannel board cutouts among the items listed below is
  - a. Ply woed
  - b. Sand paper
  - c. Silk cloth
  - d. Plastic coated canvass

- 57. Which one of the following is not a feature of magnetic board commonly found.
  - a. The bbard is made with a permanent magnet.
  - b. Magnets are attached to the visuals to be presented
  - c. Two or three dimensional flat objects can be displayed
  - d. Visuals can be held in vertical position.
- 58. The most suitable material for making a magnetic board is
  - a. Copper sheet
  - b. Brass sheet
  - c. Stainless steel sheet
  - d. Galvanized iron sheet.
- 59. Pictures from books magazines can be directly projected for enlarging using
  - a. overhead projector
  - b. pantograph
  - c. slide projector
  - d. opaque projector
- 60. A method of enlarging outline of real objects is by using:
  - a. slide projector
  - b. opaque projector
  - c. pantograph
  - d. photo enlarger
- 61. You have to make a chart of a Wankel Engine to be used for instructional purpose. If you have decided to enlarge a picture available in a 35 mm transparency, which one of the following will you choose.
  - a. Filmstrip projector
  - b. Photo enlarger
  - c. Opaque projector
  - d. Reverse projection
- 62. A large chart available has to be reduced to make a transparency for 0.H.P. Which one of the following is the most suitable method.
  - a. Rear screen projection
  - b. Reverse projection
  - c. Opaque projection
  - d. Multi-image projection.

- 63. While organising for presenting a sound slide system, you have noticed the image projected is larger than the screen itself. If you are to bring the projected image size to fit with in the screen size.
  - a. Move the projector towards the screen.
  - b. Move the projector away from the screen.
  - c. Move the screen away from the projector
  - d. Reset the focussing device.
- 64. A method of enlarging and reducing drawings by using small squared sections or graph paper is known as
  - a. Pantograph method.
  - b. Square method
  - c. Pounce pattern method
  - 'd. Grid method.
- 65. A method of enlarging and reducing proportional figures which uses four bars containing a series of holes is known as
  - a. Bar method
  - b. Grid method
  - c. Pantograph method
  - d. Square method.
- 66. Which one of the following is not a use of pantograph:
  - a. Enlarging drawings
  - b. Reducing drawings.
  - c. Proportional deliberate distortion
  - d. Reproducing drawings of same size.
- 67. Pounce pattern method is used for
  - a. Enlarging drawings
  - b. Reducing drawings
  - c. Providing horizontal distortion
  - d. transferring drawings.
- 68. A cast iron piece used by an Instructor while explaining and demonstrating the properties of cast iron is a
  - a. Model
  - b. Real object
  - c. Mockup
  - d. Specimen.

- 69. When trainees are given opportunities to handle real object, they receive:
  - a. Direct experience
  - b. Contrieved experience
  - c. Simulated experience
  - d. Dramatised experience
- 70. When real things/objects are scaled to represent, they are called as
  - a. Mockups
  - b. Models
  - c. Specimens
  - d. Cutouts
- 71. A Simulated three dimensional device which imitates only a certain aspects of .the real thing is
  - a. Model
  - b. A Mockup
  - c. A Sectionised Model
  - d. None of the above
- 72. A model which shows the internal features of an object is
  - a. Working model
  - b. Solid model
  - c. Cut section model
  - d. Mockup
- 73. A model used by instructors to show the actual function of various components of a device is a
  - a. Sectionised model
  - b. Mockup
  - c. Solid model
  - d. Working model
- 74. An instructional package means
  - a. Written instructional materials
  - b. Sound slide system
  - c. Everything including objectives, media material learner activities, evaluation.
  - d. Projected equipment properly packed and stored.
- 75. Which one of the following is not an instructional kit
  - a. Plastic models on solid geometry
  - b. Items for study and student
  - c. Black board
  - d. Transparency set on four stroke cycle.

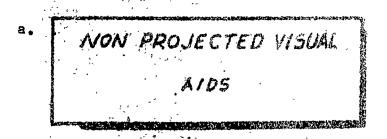
AUDIC	VISUAL	EDUÇA	MODULE- 8		ROLL NO:	
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Section '8'

				Time: 40 mts.	
	Superace answer spects	for Sec	otion A, Soct	ion-8 and	1
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	rn the question paper	·	•	one with the	
rosp	onse sheets.	•		•	
then	er Section-A first, ha answer Section-B, han eafter Section-C	nd over d it ev :	the answer to the Ins	rs to Instruct tructor, and	or,
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	SEPARATE RESPONSE SHEE irected in this quest!			the <b>spac</b> e prov	ided
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75.	Select the three impor and effective graphic				
	a. Preliminar	y though	nts		
	b. Emphasis o	aly in 1	Lavout		
	c. Careful pl	ann <b>in</b> g	•		
	d. Use as muc	h calour	as possible	ı	
	e. Apply desi	çıı techr	riques ·		
	f. Copy other	meteria	als		
	g. Verbal axp	lanation	7		
77.	vare the five princio	lus of i	visŭal desigr	•	
78.	List the five visual	tools us	sed in the gr	aphic design	
79.	Name the five factors readdoility in letter		ill contribut	e to good	
80.	Fatch the following becomesoonding numbers				I
	drite the answers on	the resp	oonsa shee <b>t</b> ,	against	
	corresponding aluhabe	ts a,b,	or c.		
	e Gothic	1.	ABCI	EFGJ	
	b Roman	2.	ABCI	EF6	
	c. Textual	3.	ABCD	EFGH	_

- 81. State the three principles to be followed in selecting: lettering styles.
- 82. Which one of the following is considered as a poor lettering layout?









- 83. Name the two kinds of letter spacing generally adopted for writing words.
- 84. You are writing a two line caption for a poster using 30 mm upper case letters. What space would you leave between the two lines ?

85. Match the following, by writing against items in column I corresponding numbers of items given under column II, Write the answers on the response sheets, against corresponding alphabets a,b,c or d.

Column I		Column II
a. Bar graph	Ίς.	ATTETUDE IN ACTION OF THE PARTY
b Pie graph	2.	
c. Picto graph	. 3.	10 § 73, 502
d, Line graph	4 .	287 A B SALES 5
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- 86. Name the ten types of charte used for instructional purposes.
- 87. State, four functions of posters.
- 88. List the five steps to be followed while posters are used for instructional purposes.
- 89. Name the five types of chalkboards commonly found.
- 90. State five advantages of chalkboards.
- 91. While writing on chalkboard we sometime print letters, name two situations in which you do this.
- 92. While using chalkboard for teaching, summary of the lesson is given on the board. This summary to be helpful for learners should have certain qualities, State four qualities.
- 93. State the five advantages of chalkboard.
- 94. What are the five advantages of bulletin boards over chalk-board?
- 95. List five instructional functions of bullstin boards.
- 96. State what is a flannel board ?
- 97. List the five follow up actions suggested to ensure the value of presentation with flannel and magnetic boards.
- 98. List four types of reproducing pictures using grid method.
- 99. State five suggestions for the effective utilisation of models in classroom.
- 100. Match the following, by writing against the items in Column I, corresponding numbers on items given under Column II. Write the corresponding numbers of answers on the response sheet against the alphabets a,b,c,d or e.

#### Column I

- a. Model
- . b. Instructional Kit
  - c. Specimen
  - d. Direct experience
  - e. Reveal internal features

#### Column II

- 1. Sample
- 2. Cut section model
- 3. Containing materials tools and or instruction.
- 4. Replica of the original
  - 5. Real objects
  - 6. Working model
  - 7. Mockup
  - 8. Media package

	•
AUDIO VISUAL EDUCATION	RESPONSE SHEET
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Module II

CRITERION TEST
SECTION 'C'
Time: 7 hrs. 30 mts.

Use separate answer sheets for Sec.A, Sec.B, and Sec.C. Do not write anything on this question paper.

RETURN the question paper along with your assignment she

RETURN the question paper along with your assignment sheets/responses.

ANSWER Section C after completing Section A and Section B.

For Practical Exercises, fill the assignment sheets wherever; asked.

- 101. Write a caption with a minimum of ten letters (upper case Gothic style using duo line letter guide.
- 102. Write a caption with a minimum of three words (upper case and lower case combined) using planograph lettering stencil.
- 103. In a class of 40 students, the final evaluation results are as shown.

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very good
... 4 trainees
good
... 8 trainees
satisfactory
... 20 trainees
poor
... 8 trainees

Prepare a pie graph to show the trainees in each category with respect to the total class

104. For trainees of a section there were ten monthly tests. The performance of one trainee is as shown below.

	Marks %		Marks %
September	<b>5</b> 5	Januar y	70
October	<b>6</b> 0	Februar y	65
November	45	March /	60
December	75	April	70
		May	75
		June	80

Draw a line graph to show the individual trainee progress.

105. Draw a data chart to show the equivalent decimal value in inches and matric with in decimals upto four places for each measurements from 1/32" to 1" (in steps of 1/32").

- 106. A factory established in the year 1976 had a staff strength of 750 in the begining and in subsequent years the strength. was increased to:
  - 1977 . 800
  - 1978 .. 825
  - 1979 .. 900
  - 1980 .. 950
  - 1981 .. 1200

Draw a pictograph to show the comparative staff strength for all the six years. Use stick figures to represent the staff.

- 107. Draw a bar graph to represent the figures in question 106.
- 108. Draw a pictorial chart of the given item and indicate various parts.
- 109. Prepare a schematic chart to show a lighting circuit which contains a 1.5 volts dry cell, a bulb and a switch to control.
- 110. Draw a diagramatic chart on the given ( topic.
- 111. Prepare an animated chart to show the movement of the reflector of an epidiascooe for oppque and transparent projection.
- 112. Prepare an exploded view chart of the given objects.
- 113. Prepare a tree chart on the given topic.
- 114. Prepare a flow chart on the given topic.
- 115. Prepare a phantom view chart on the given topic.
- 116. Prepare a folding chart set on the given topic.
- 117. Prepare a safety poster, depicting an important safety aspect connected with your trade.
- 118. Using chalkboard instruments, draw a regular cone (150 mm high, 50 mm dia). A line AB cuts the cone at 100 mm on the axis from the base and makes 45° to the base line. Draw the plan from top and also the plan of the cut section (conic section) at a plane parallel to the cut section.
- 119. Using the given template, draw a hexagon on the chalkboard.
- 120. Draw freehand sketch of a ballpane hammer, shade it and colour it.

- 121. Draw an exploded view of a given machine or part of the same on the chalkboard and print the caption.
- 122. Write three statements with not less than thirty words in all containing both supper and lower case letters, on the chalkboard, number each statement. The depth of the class room is 10 M. Use given sentences.
- 123. Plan a chalkboard summary on a given lesson topic using coloured chalks also.
  - 124. Prepare a layout for bulletin board display for reviewing a lesson topic and draw it on a sheet.
  - 125. Prepare three flannel board cutout with sand paper backing on a given topic.
  - 126. Prepare three magnetic board presentation materials with GI strip backing on a given topic.
  - 127. Enlarge a given visual by the grid method.
  - 128. Enlarge a given visual by using pantograph.
  - 129. Enlarge a given visual by using opaque projector.
  - 130. Enlarge a given visual by using overhead projector.
  - 131. Reduce the given line drawing using pantograph.
  - 132. Reduce the given visual by the grid method.
  - 133. Reduce the given visual by the reverse projection method.
  - 134. Make a chalkboard line diagram by the dot dusting method (Pounce method).
  - 135, Prepare thermocole cutout letters.
  - 136. Write a chalkboard presentation for a given topic with diagramatic illustrations.

#### AUDIO / LOUD LUCU (TO.)

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101 - 156. THESE ARE PRACTICAL EXERCISES.

You have to do these questions yourself.

Tick the questions you can do yourself & cross the questions you cannot do yourself. Then hand over this sheet to the invegilator and attempt those questions you can do.

101	111	121	131
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	KEY SO
<i>F</i> -7 c	UDIO VISUAL EDUCATION - MODULE II
Ro	11 No: Trade: SECTION B
76.	** a d. ** e.
77.	fg.  1. Dominance  2. Simplicity
	3. Harmony or Unity 4. Pattern 5. Balance
78.	1. Line 2. Colour
	3. Texture 4- Shape and size
	5. Spage
79.	1. Size 2. Style
	3. Layout 4. Spacing 5. Contrast
80.	a. <u>'3</u> b. <u>1</u> c. <u>2</u>
•	1. Readability (easily read)
, ,	2. Simplicity (simple style)
	3. Legibility (capital to small)
. 82.	a. ** b c d.
	1. Mechanical 2. Optical
84.	1/3rd the height of letter.
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,	•	З,	Diagramatic	8.	Phanthom view
		4,	Schematic	9 į	Exploded
		5 ,	Tree	10,	Folding (Flip)
	87,	1,	Motivation	3.	Atmosphere
		2.	Reminder	4.	Creative expression
	88°	1,	Prepare students	4.	Examine or test
		2.	Present poster	5,	Review
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	89,	1.	Wall board	4,	Anamel beard
		2,	Glass board	. <b>5</b> .	Roll up board
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	90,	1,	Build up explanation	in	logical order,
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, ' <sub>'</sub> ',		3,	Transfer picture, dr	f.,	· ·
		4.	Advance preparations	oùts Pest	ide class using roll up type.
		5,			work problems; drawings etc.
	91.	1.	Caption	2,	Emphasis
	92,	1,	Complete in coverage	.4,	Well set out.
,		2.	Concise	5.	Imphasize.
	' ;	3.	Well analysed.		<u>}</u>
	93.	1,	Atick to your style.	4,	Size governed by lass strength.
		3.	Avoid compress letter	75.	Rotaté chalk for uniform titknéss.
	,	3.	denerous in spacing,	6.	Write straight agross the board,
	<b>.</b> . 、		•		

- 94. 1. Single copy material can be exhibited.
  - 2. Stimulate interest.

wise

- 3. Allows study of subjects not other/brought up in class.
- 4. Encourage participation.
- 5. Review and reminders.
- 6. Helps trainees learn communicate ideas visually.
- 95. 1. Helps to communicate.
  - 2. Visualise portions of test.
  - 3. Provides a medium for and individual responses.
  - 4. Make the classroom dynamic relevent and attractive.
- 96. A flannelboard is a non-projectel visual ail whicigh utilise the adhering qualities of certain material to support vertically.
- 97. 1. Discuss questions on chalk board.
  - 2. Determine impressions on trainees.
  - 3. Set up group discussion
  - 4. Conduct test to judge results.
    - 5. Evaluate your performance. (repeat if needed.)
- '98. 1. Enlarging. 2. Reducing. 3. Equal size. 4. Distortion.
- 99. 1, Proper size.
  - 2. Don't pass a small model to the class when talking about it.
    - 3. Have definite purpose.
    - 4. <u>Integrate models</u>.
    - 5. Relative size.
- 100.  $\frac{4}{1}$  a.  $\frac{3}{1}$  b.  $\frac{1}{1}$  c.  $\frac{5}{1}$  d.  $\frac{2}{1}$  e.

# TELESCOPING-GAUGES

# Drawing is a Language of Craftsmen

# PIE GRAPH



Very good

4 Trainees

Good

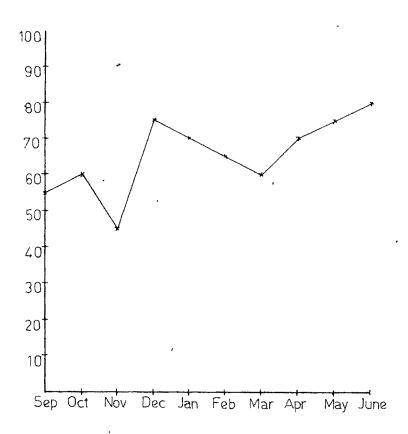
8 Trainees

Satisfactory 20 Trainees

Poor

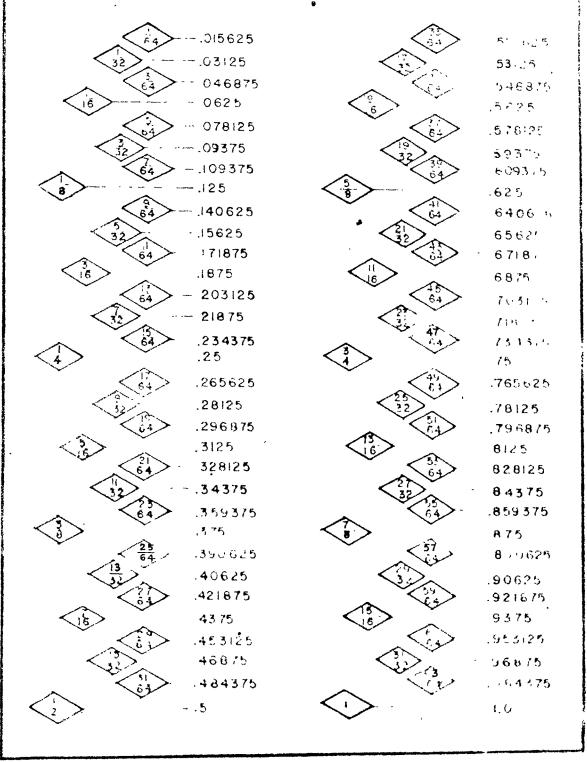
8 Trainees

# LINE GRAPH

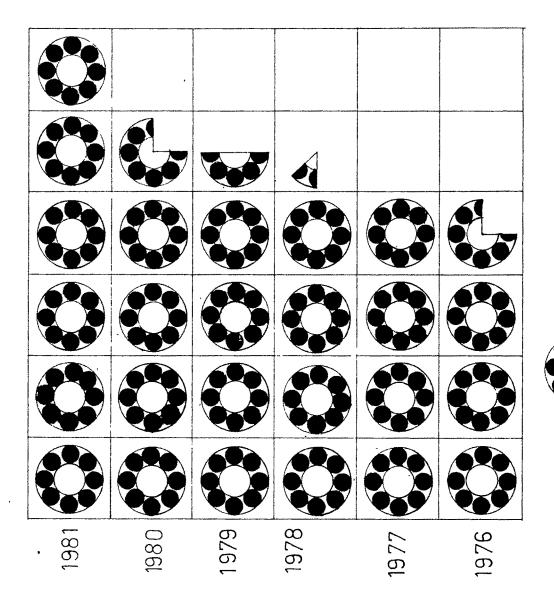


### DATA CHART

#### DECIMAL EQUIVALENTS

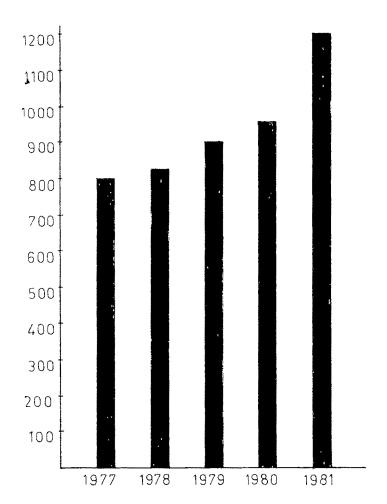


# **PICTOGRAPH**

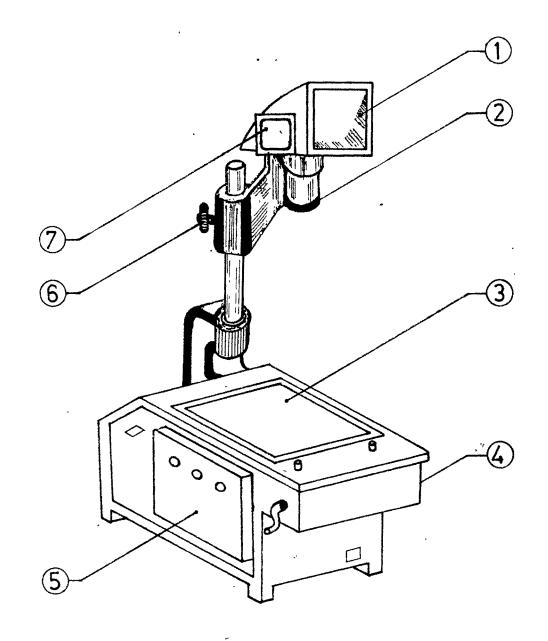




# BAR GRAPH

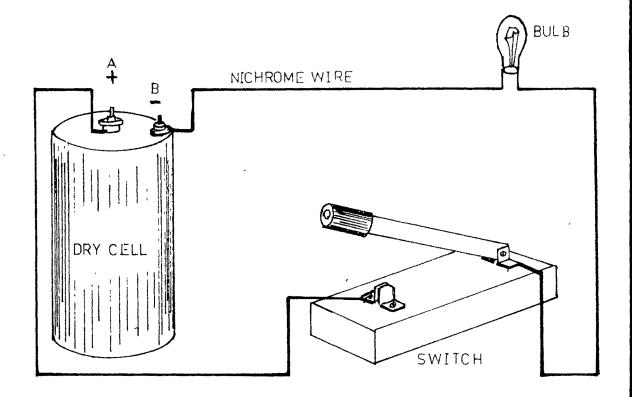


## PICTORIAL CHART

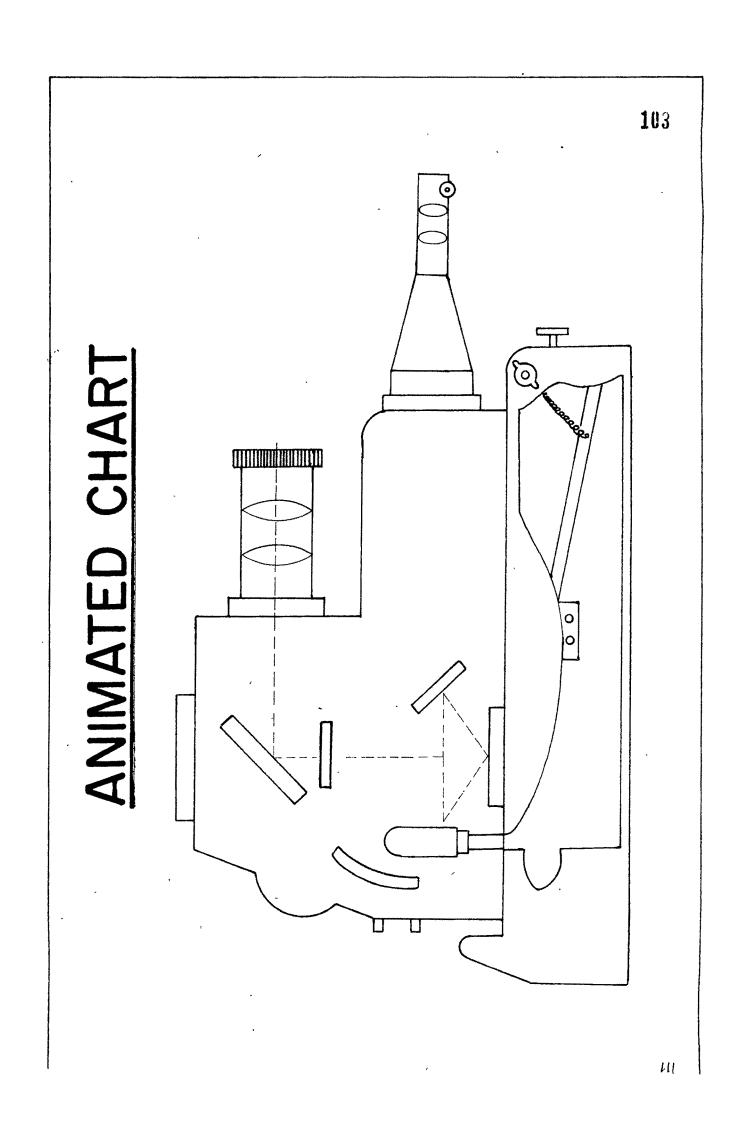


- 1. FRONT SURFACE MIRROR 5. SIDE DOOR
- 2. PROJECTION LENS 6. FOCUSSING KNOB
- 3. COVER GLASS 7. FOCUSS AID
- 4. BODY OF PROJECTOR

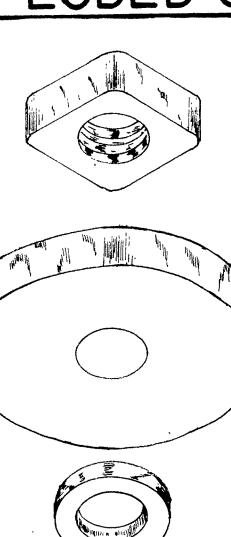
# SCHEMATIC CHART 101

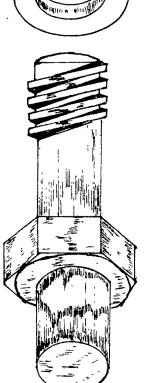


# DIAGRAMATIC CHART 102

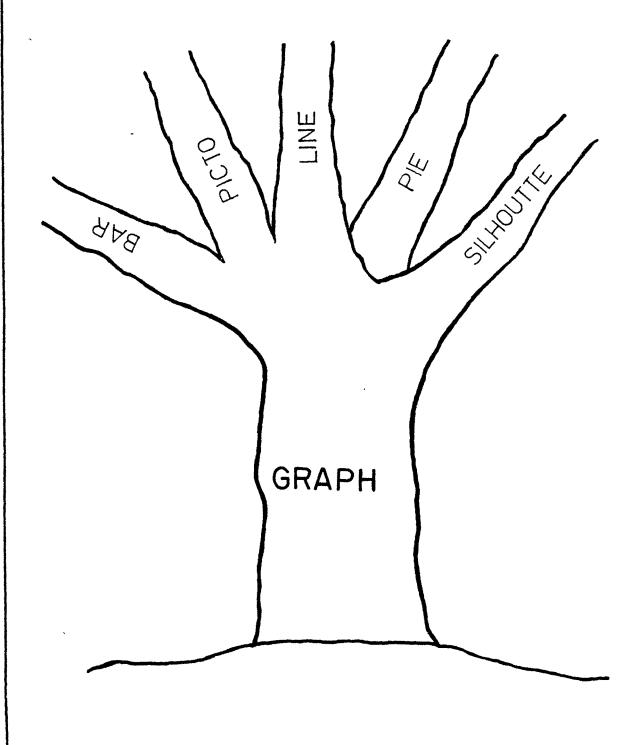


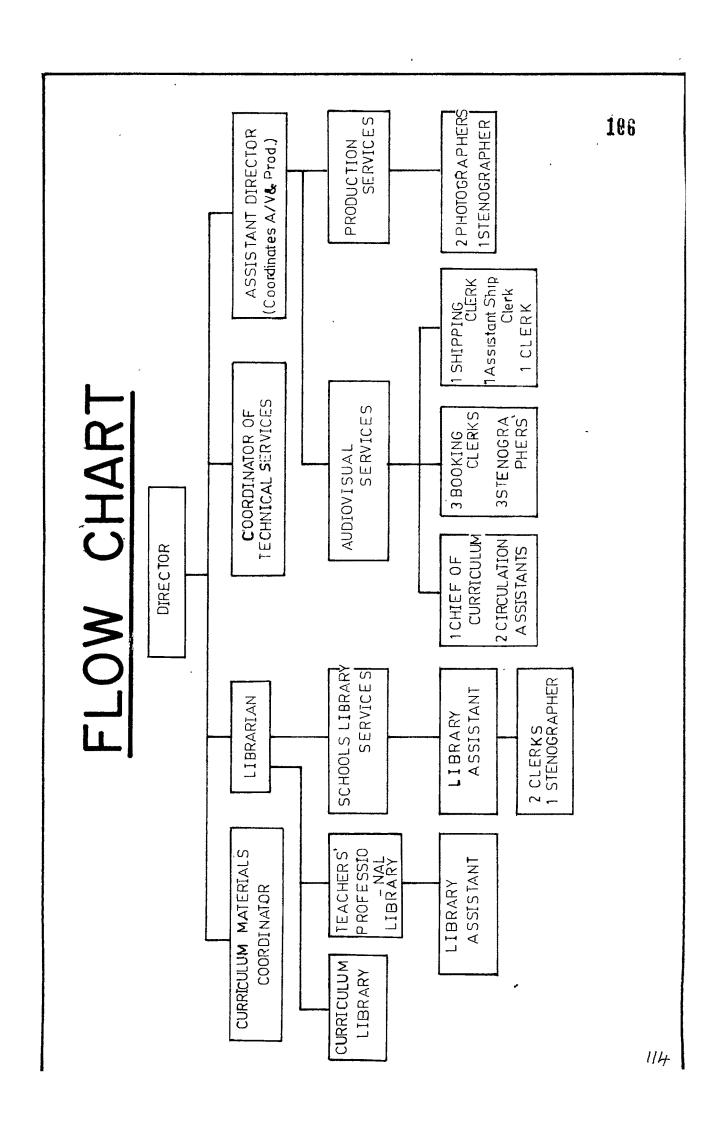
# EXPLODED CHART 104



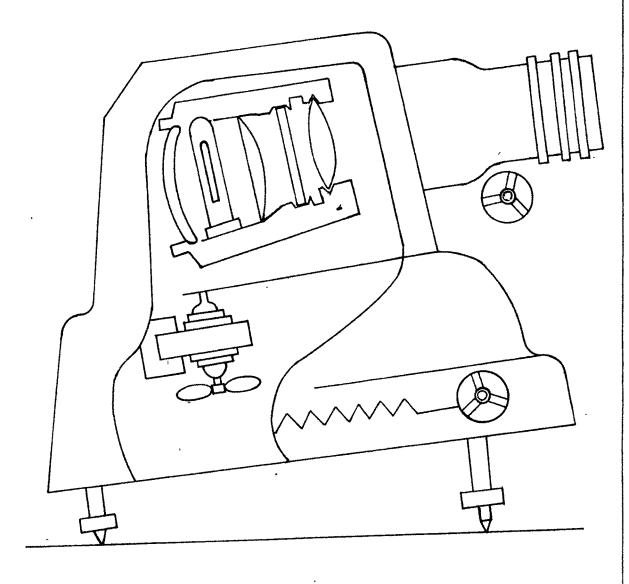


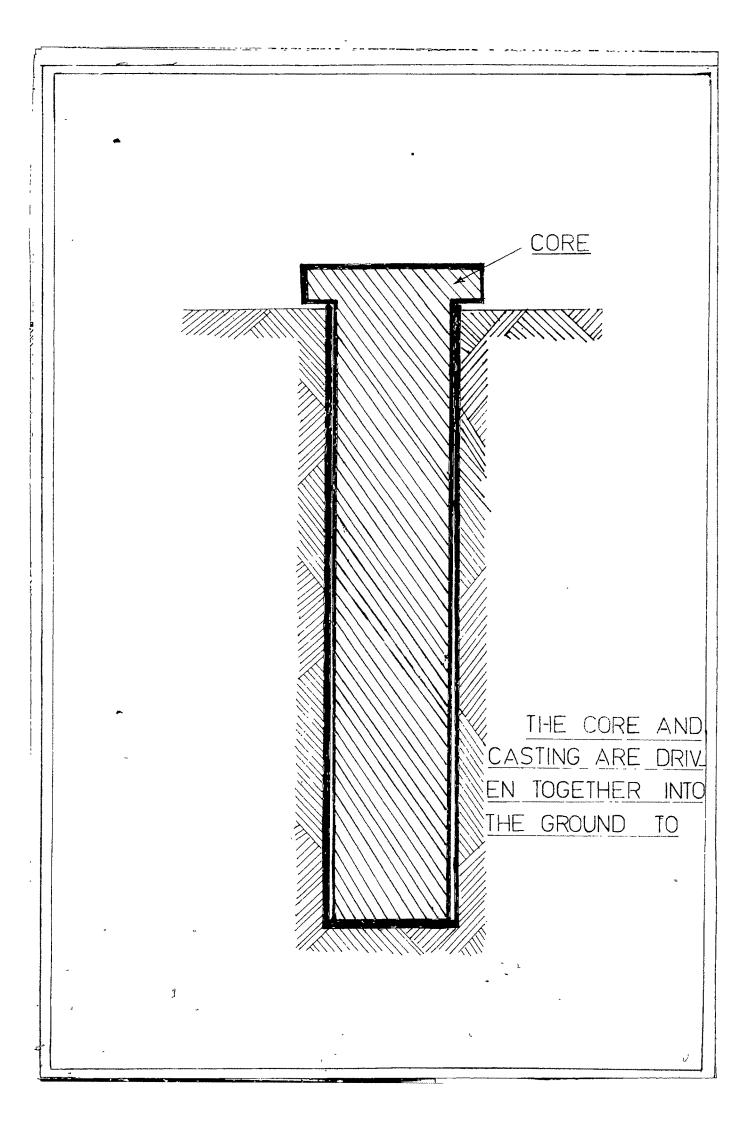
# TREE CHART

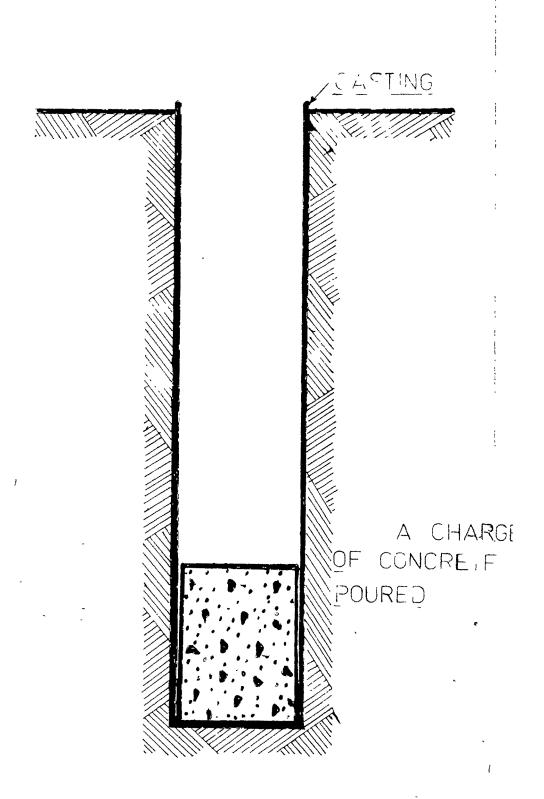


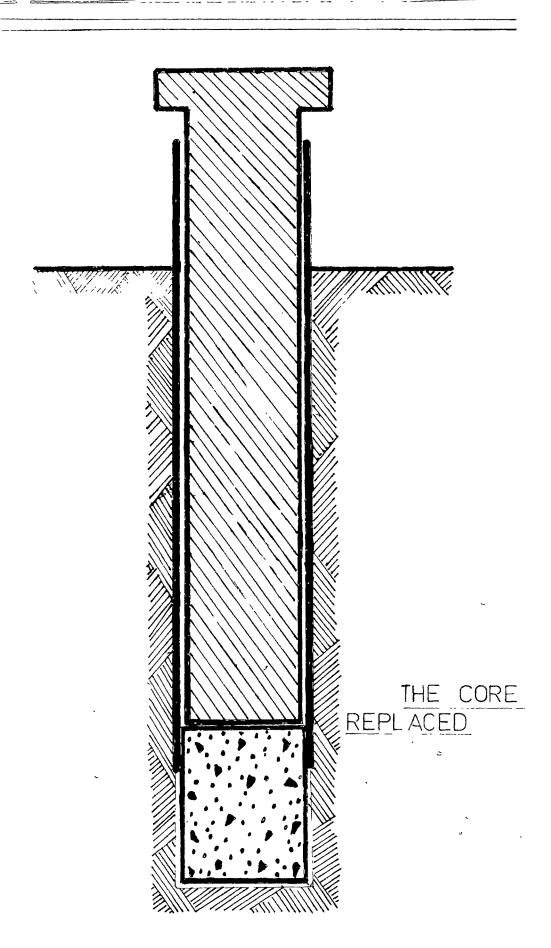


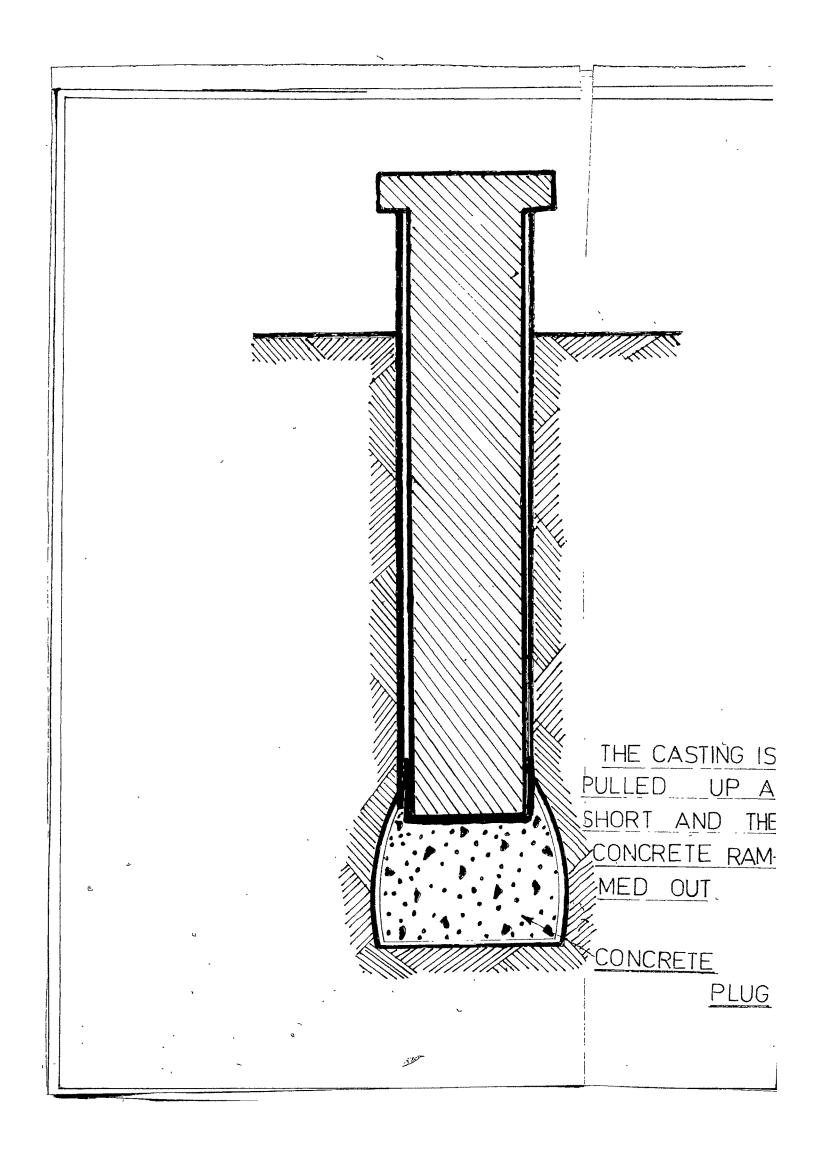
# PHANTOM VIEW CHARTIER

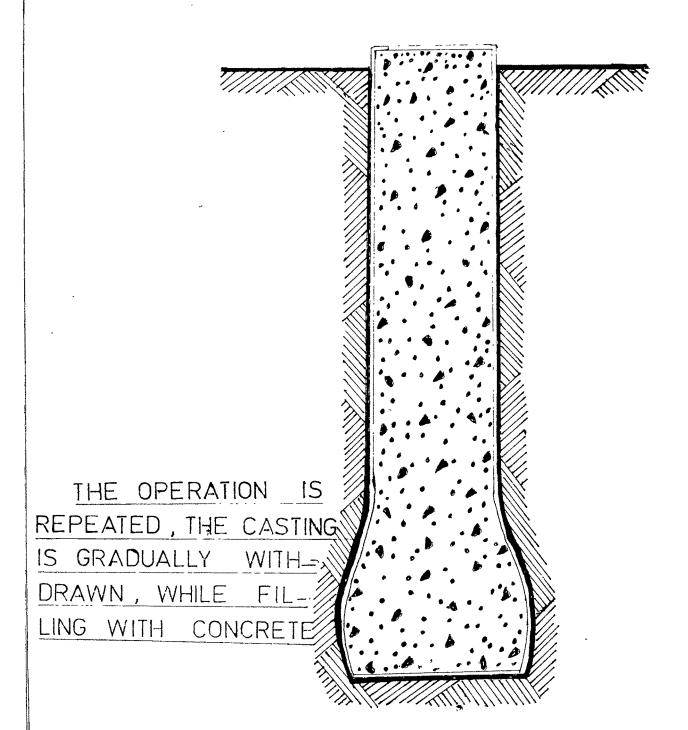




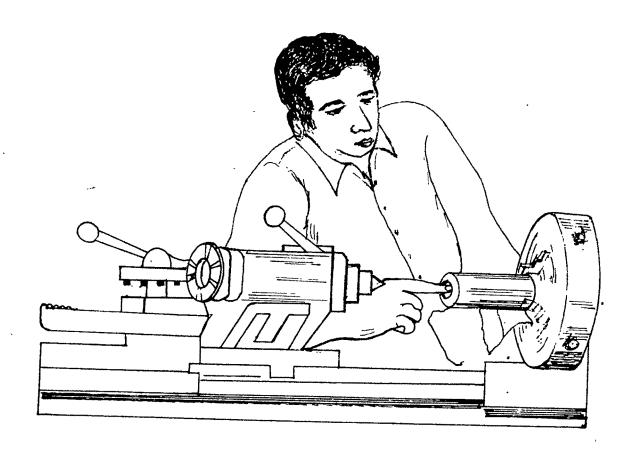




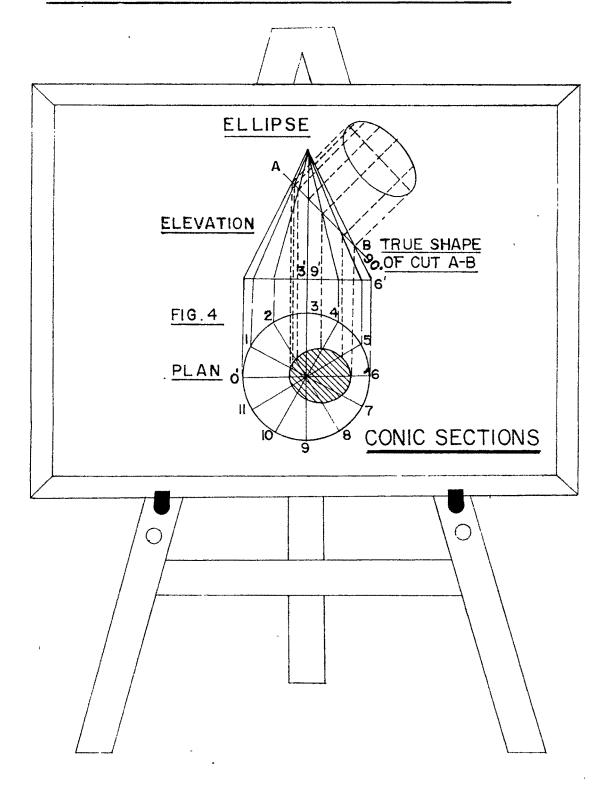




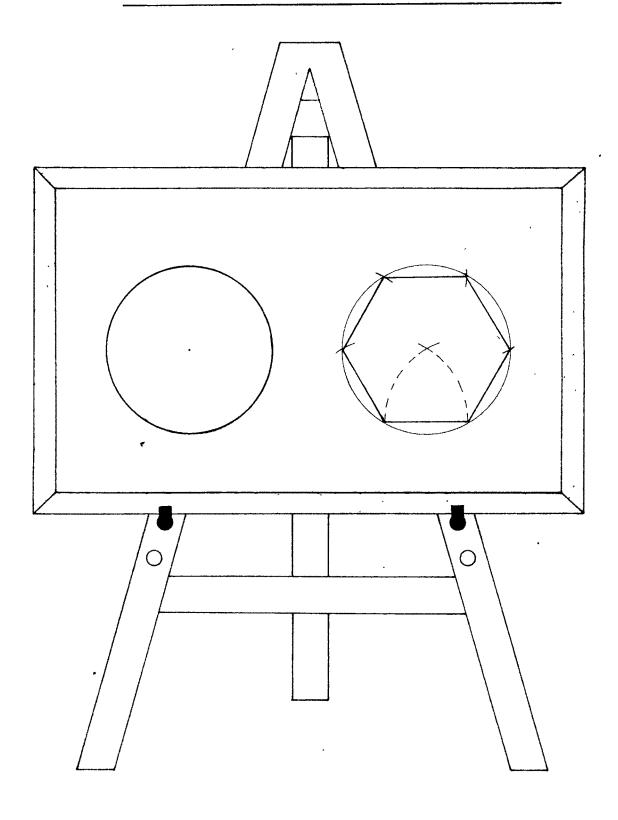
### DON'T YOU NEED YOUR FINGERS ANY MORE



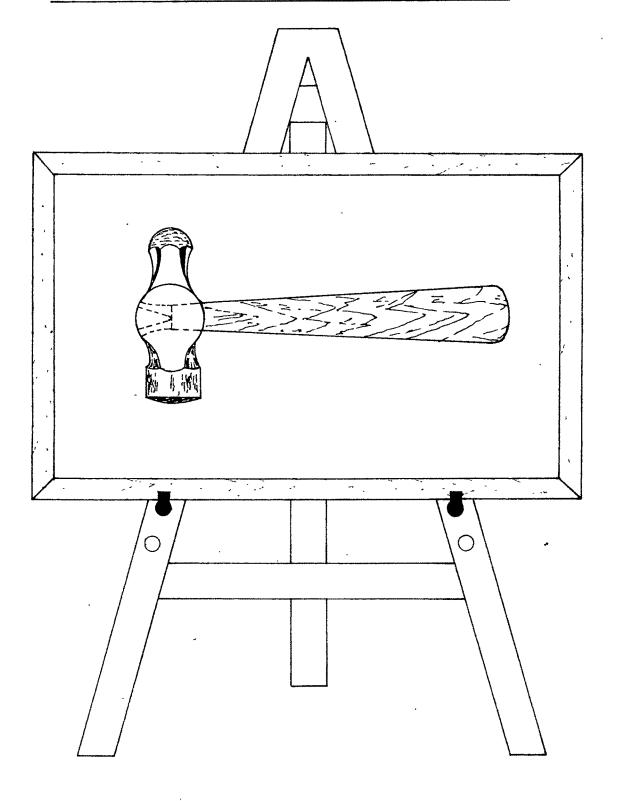
# CHALKBOARD EXERCISE 110



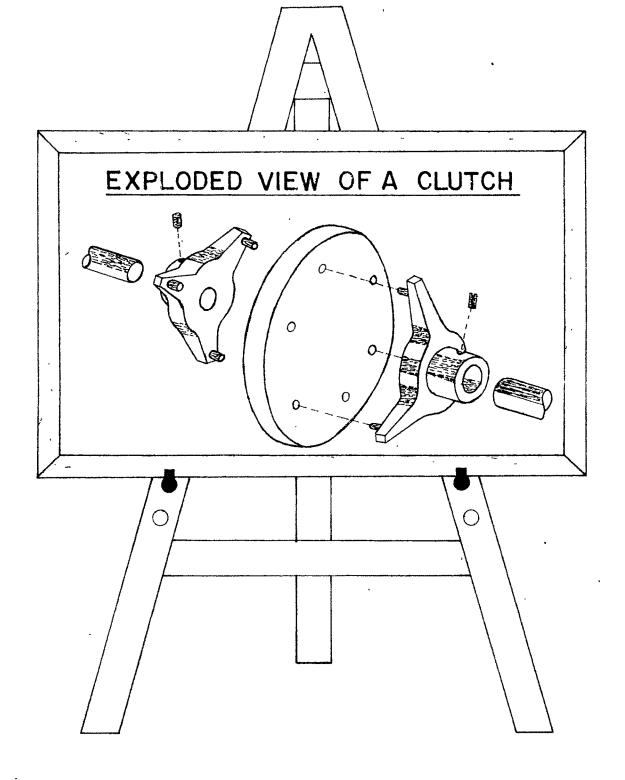
# CHALKBOARD EXERCISE 111



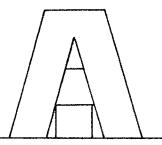
# CHALK BOARD EXERCISE



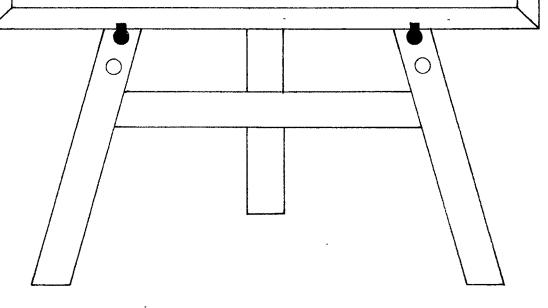
# CHALK BOARD EXERCISE



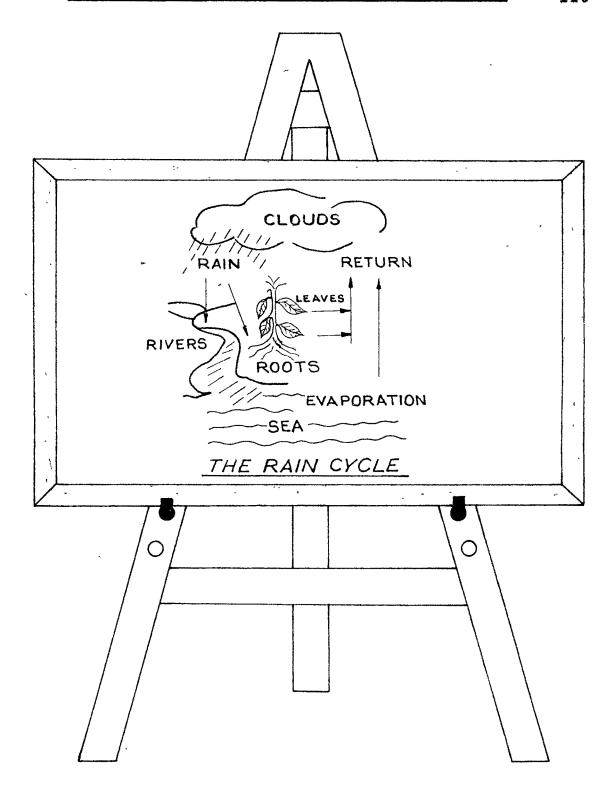
## CHALK BOARD EXERCISE

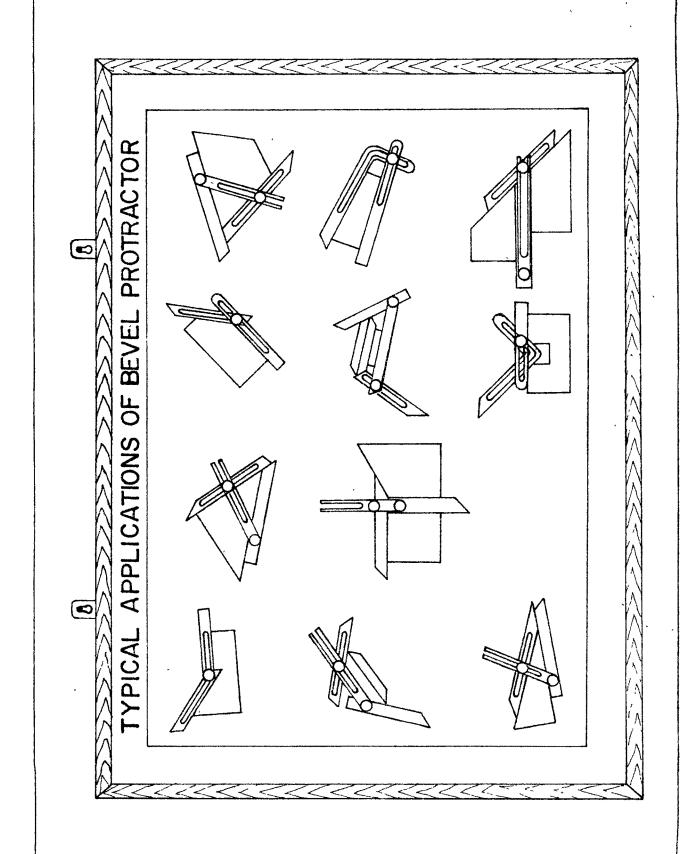


- 1. Charts, Posters, Graphs and Diagrams have been named the "Spark Plugs" of visual training.
- 2. They are easy to make and effective devices for instruction.
- 3. These aids are extensively used in instructional organisation.

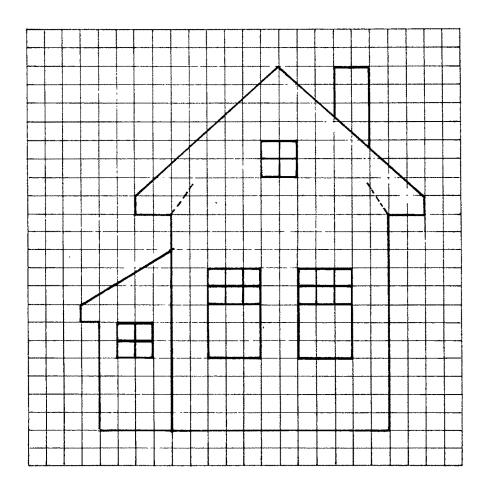


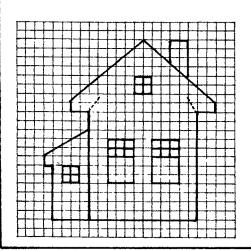
# CHALKBOARD EXERCISE



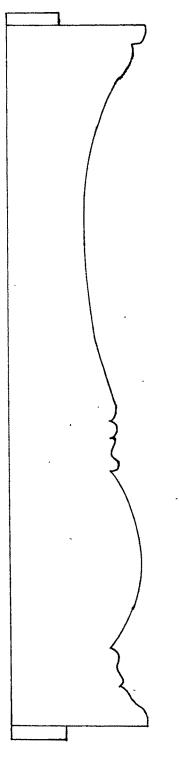


# GRID METHOD

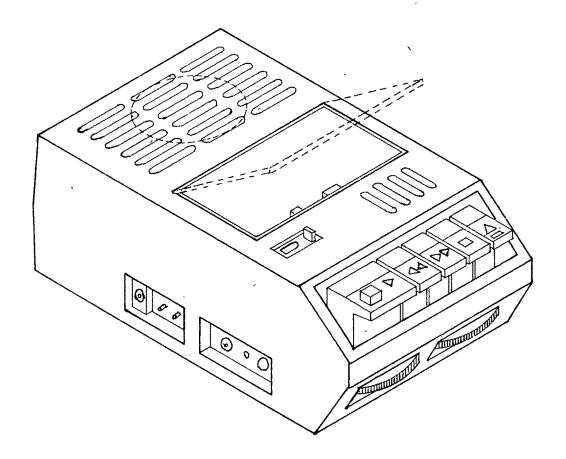


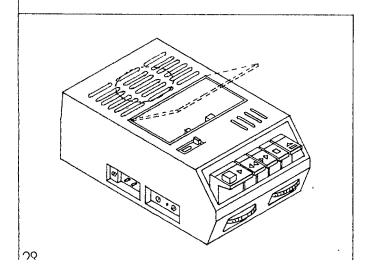


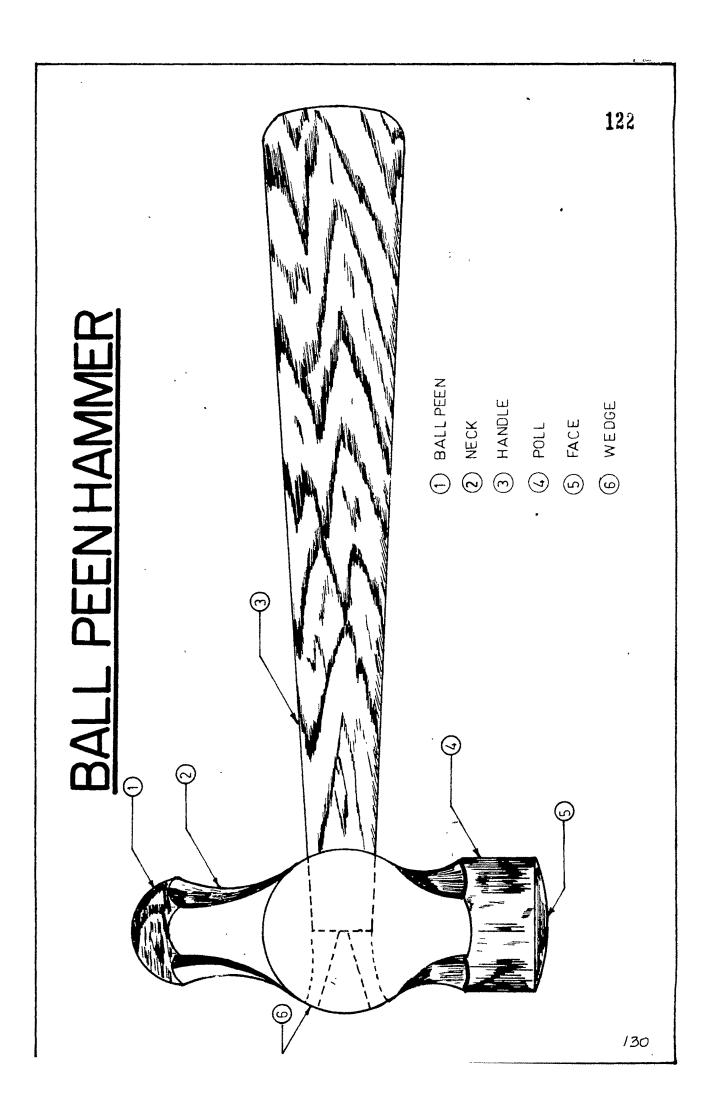
# ENLARGING VISUAL 120 (PANTOGRAPH METHOD)



# ENLARGING VISUAL 121 USING OPAQUE PROJECTOR

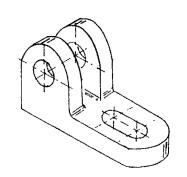


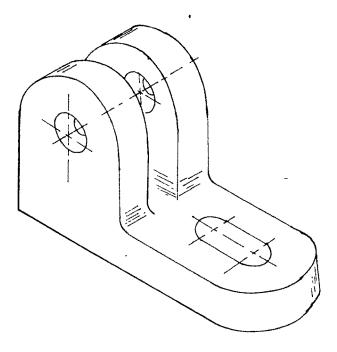




### REDUCING VISUAL USING PANTOGRAPH

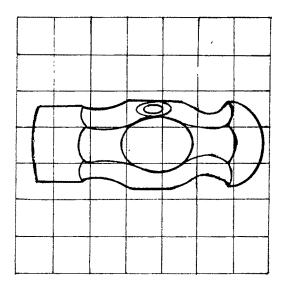
123

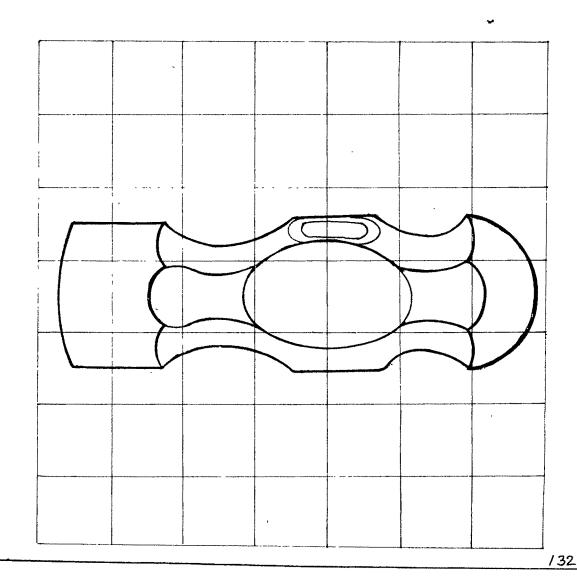




/3/

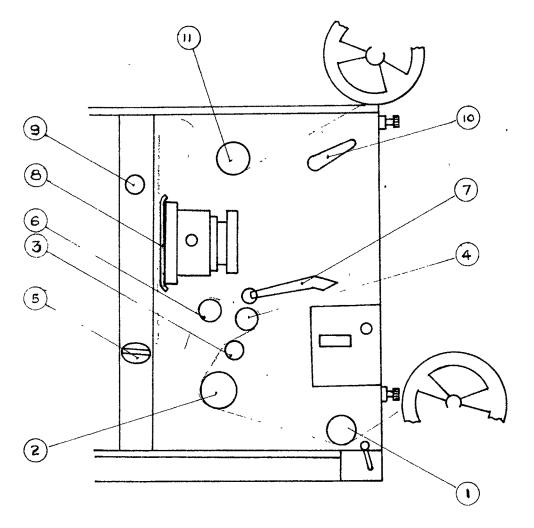
# GRID METHOD 124





# REVERSE PROJECTION

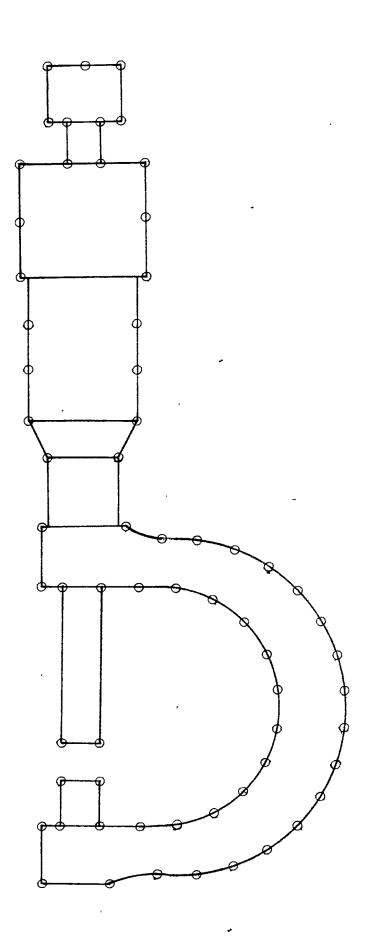
BY O.H.P



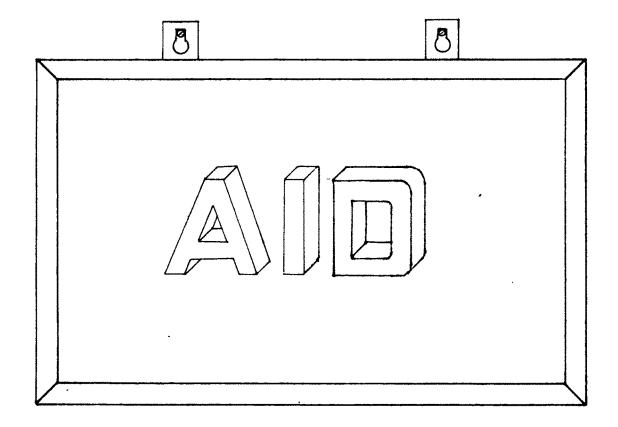
- 1 SNUBBER
- 2 TAKE UP SPROCKET
- (3, TENSION ROLLER
- (4) SOUND DRUM
- (5) SOUND SILENT SWITCH
- (6) GUIDE ROLLER
- (7) PRESSURE ROLLER
- (8) GATE

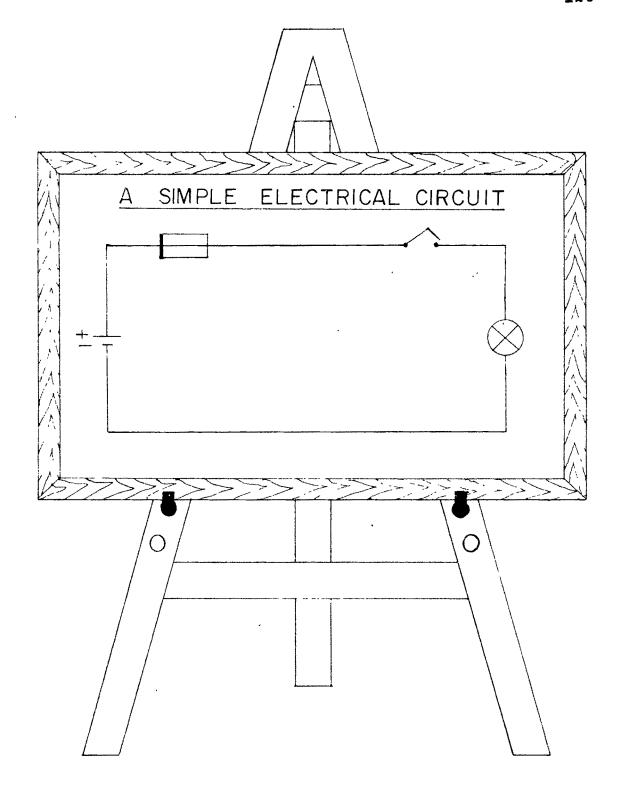
- (9) FRAMER
- (10) PROJECT REWIND LEVER
- (11) SUPPLY SPROCKET

# DOT DUST PUNCH METHOD



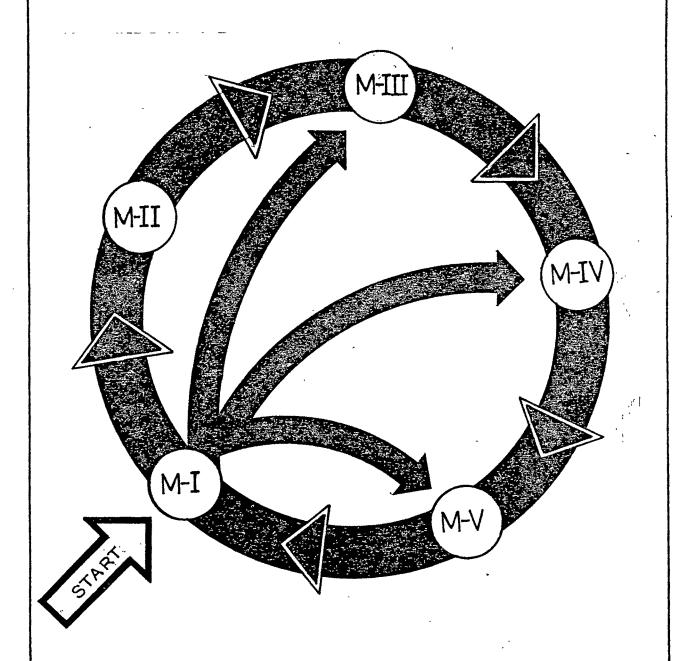
# BULLETIN BOARD EXERCISE





DIAGRAMATIC ILLUSTRATION

# AUDIO VISUAL EDUCATION



KRISHNAN.

Module III

Projected Aids

Trades: All

Units 1 to 10

CRITERION TEST

Section A

Time: 35 mts.

Use separate response sheets provided for Section A, Section B and Section  $C_{\bullet}$ 

Answer Section A first, hand it over, then section B. Answer Section, C last.

DO NOT write anything in the question paper; Return the question paper to your Instructor.

CIRCLE appropriate letter(s) a,b,c or d for Section A on response sheets.

- 1. Selection of audio visual material mainly depends on
  - a. the hardware and physical facilities.
  - b. the content only
  - c. the objectives only
  - d. the objectives and content.
- 2. The purpose of using an instructional medium is to:
  - a. communicate the content stimuli not essentially related to the objectives.
  - b. present your skills to your audience, on making audio visual materials.
  - c. elicit proper response that serve the objectives.
  - d. use all the available hardware in your institute or school to satisfy the administrators.
- 3. A teacher has written a script for producing 35 mm film transparencies on a topic based on his lesson plan. He desires to have these transparencies made in such a way that the sequence cannot be altered. Which one of the following will be best suitable for this.
  - a. a set of films.
  - b. a filmstrip with 30 frames.
  - c. a set of transparencies
  - d. none of the above.
- 4. A teacher prepares a number of slides on a topic with certain advantages in mind. Among the following which one is a specific advantage of slides.
  - a. Sequence cannot be changed
  - b. Compactness
  - c. Any slide can be revised.
  - d. Can be operated without much training.
  - M III/1-10/CF-1

- 5. You do not have facilities for darkening the room. You are given the following projectors to be used in the illuminated room, and you have to use them, facing the class. Which one will you select?
  - a. epidiascope
  - b. overhead projector
  - c. filmstrip projector
  - d. slide projector
- 6. You are not having a chalkboard for taking a class, but you are given the following aids and equipment to use them. Select the aid that will permit you to add information on it, while using them.
  - a. 16 mm film
  - b. slide
  - c. transparency
  - d. filmstrip
- 7. The most important reason for selecting a motion picture for a topic of instruction is:
  - a. it is interesting
  - b. it is considered motion is essential
  - c. it is not possible to show motion by any other means
  - d. none of the above
- 8. Which one of the following is not an advantage of the Television over the motion picture when you are confronted with the problem of choosing one of them as the medium for your class.
  - a. TV can show motion.
  - b. TV can be used simultaneously for many classrooms at the same time.
  - c. TV can be used for taking remote control pictures where access is not possible as in explosives.
  - d. TV can be used for immediate feedback whereas other aids will take processing time.
- 9. One specific advantage of multi-image presentation when compared with other projection methods is
  - a. It helps to compare and contrast objects and events one after the other systematically in a sequence on one screen.
  - b. Horizontal and Vertical format of slides can be projected.
  - c. Viewers can compare and control objects or events at one time from the images seen on more than one screen
  - d. Possibility of keystone effect is completely ruled out.

- 10. We use a variety of media in teaching because
  - a. Each medium has different type of instructional capability
  - b. Students are attracted by the use of modern media equipment
  - c. It is easy for the teacher to present lessons with different media.
  - d. It is economical.
- 11. In which of the following projectors will you place the projection material without turning it upside down?
  - a. overhead projector
  - b. filmstrip projector
  - c. motion picture projector
  - d. slide projector
- i?. The direct projection system is not applicable in the case of
  - a. slide projector
  - b. opaque projector
  - c. motion picture projector
  - d. filmstrip projector.
- 13. The indirect projection system is applicable in the case of
  - a. opaque projector
  - b. overhead projector
  - c. slide projector
  - d. 16 mm motion picture projector
- 14. The reflected projection system is applicable in the case of
  - a. slide projector
  - b. motion picture projector
  - c. opaque projector
  - d. overhead projector
- 15. The projection material is placed lying in a horizontal plane in the case of
  - a. slide projector
  - b. motion picture projector
  - c. filmstrip projector
  - d. overhead projector
- '6. In which of the following projectors no darkening of the room is required?
  - a. slide projector
  - b. overhead projector
  - c. opaque projector
  - d. motion picture projector
  - M III/1-10/CT-3

- 17. The maximum viewing distance for an image projected by slide, filmstrip, or motion picture projector and television are
  - a. six times and two times the width of the screen respectively.
  - b. sixteen times and six times the width of the screen respectively.
  - c. sixteen times and eight times the width of the screen respectively.
  - d. six times and sixteen times the width of the screen respectively.
- 18. It is necessary to position the filament of lamp in a projector parallel to the screen and a
  - a. to prevent light dispersing in all directions
  - b. to avoid too much light emission.
  - c. to ensure maximum light emission toward the screen.
  - d. none of the above.
- 19. Which one of the following is not a salient point to be remembered while replacing the projector lamps?
  - a. the wattege specified by the projector manufacturer should be same.
  - b. the lamp must be a halogen lamp.
  - c. the base and contact points must be compatible with the socket.
  - d. the filament must have an identical structure.
- 20. In which of the following projectors we do not place the visual inverted and upside down.
  - a. opaque projector
  - b. filmstrip projector
  - c. motion picture projector
  - d. slide projector
- 21. The projectual is placed upside down in the projectors because:
  - a. the projection lens inverts the image
  - b. the condensor lens inverts the image.
  - c. the reflector inverts the image.
  - d. all the above are true.
- 22. The lens that is responsible for providing sharpness and clarity of the image on the screen is
  - a, condensor lens
  - b. projection lens
  - c. fresnel lens
  - d. none of the above.
  - M III/1-10/CT-4

- 23. The projected image can be made larger or smaller without moving either the projector or the screen by
  - a, using powerful lens system `
  - b. good condensor lenses
  - c. zoom lens
  - d. providing prism of good quality
- 24. Which one of the following operationswill enable you to get a larger projected image on the screen
  - a. moving the projector toward the screen
  - b. moving the screen away from the projector
  - c. moving the screen toward the projector
  - d. all the above.
- 25. Which one of the following is <u>not</u> a function of the condensor lens system?
  - a. gather light from the lamp
  - b. direct light to the projectual
  - c. focus the image on the screen
  - d. converge the light passing through it;
- 26. The image projected through a filmstrip projector is kept upside down in the filmstrip projector because
  - a. the condensor lens inverts the image
  - b. the projection lens inverts the image
  - c. the reflector inverts the image.
  - d. the aperture inverts the image:
- 27. Centering the frame on the screen is done by using the
  - a. film advance knob
  - b. focussing knob
  - c. framer
  - d. elevator knob
- 28. Which one of the following is the correct size of a double frame filmstrip format ?
  - a. 35 mm x 35 mm
  - b. 36 mm x 36 mm
  - c. 36 mm x 18 mm
  - $d.36 \text{ mm} \times 24 \text{ mm}$

- 29. Which one of the following is the correct size of a single frame filmstrip format?
  - a. 24 mm x 18 mm
  - b. 36 mm x 24 mm
  - $c.35 \text{ mm} \times 18 \text{ mm}$
  - d. 18 mm x 18 mm
- 30. Which one of the following is the speed of the 16 mm sound motion picture projection ?
  - a. 24 frames per second.
  - b. 16 frames per second.
  - c. 36 frames per second.
  - d. 24 frames per minute.
- 31. The time required to run 400 feet of 16 mm sound motion picture film is:
  - a. 10 minutes.
  - b. 11 minutes
  - c. 24 minutes
  - d. 36 minutes.
- 32. Which type of sound recording allows you to record sound on a 16 mm film in your class room or institution ?
  - a. magnetic
  - b. variable area optical
  - c. variable density optical
  - d. all the above.
- 33. The sound in a 16 mm motion picture is recorded
  - a. 26 frames ahead of the .actual picture frame
  - b. 26 frames behind the actual picture frame
  - c. 25 frames behind the actual picture frame
  - d. 25 frames ahead the actual picture frame.
- 34. Focussing of the picture is done by moving
  - a. condensor lens behind
  - b. objective lens in and out
  - c. screen toward or away from the projector
  - d. raising or lowering the projector

- 35. Film in a motion picture projector is held in place behind the objective lens between
  - a. film gate and film channel
  - b. film channel and aperture
  - c. film channel and pressure plate
  - d. claw and aperture
- 36. The film is drawn past the aperture by the
  - a. take up sprocket wheel
  - b. claw
  - c. pressure plate
  - d. film gate.
- 37. If the film sprocket holes are not engaged by the claw properly the image on the screen will be
  - a. fluttery
  - b. faint
  - c. vibrate
  - d. sound will be distorted.
- 38. Film must be under tension as it passes around the sound drum, to prevent
  - a. faint sound
  - b. fluttery image
  - c. distorted sound
  - d. none of the above
- 39. The main advantage of overhead projector over the other projector is that:
  - a. the overhead projector can be placed in front of the class.
  - b. the overhead transparencies can be stored in a small space.
  - c. the overhead projector is the smallest projector and hence .easily moved from one class room to another.
  - d. the overhead projector is the cheapest of all projectors.
- 40. Which one of the following projectors crovides you the facility to write on the projectual and thus can be used chalkboard?
  - a. 16 mm motion picture
  - b. overhead transparency
  - c. slide
  - d. filmstrip
  - M III/1-10/cm-7

- 41. Which of the following prepared projectuals allows you to use the technique of overlay, masking and progressive disclosure?
  - a. filmstrip
  - b. slide
  - c. overhead transparency
  - d. 16 mm motion picture projector
- 42. Which of the following sizes of projectuals can be projected on an overhead projector ?
  - a. opaque pictures 8% x 10%
  - b. opaque objects like a chuck 15" x 12" x 10"
  - c. transparent flat pictures 10" x 18"
  - d. transparent flat objects that are less than 10" x 10"
  - 43. The minimum and maximum size of transparent pictures that could be projected through an overhead projector are :
    - a. 50 x 50 mm and 100 x 100 mm respectively
    - $b.40 \times 40 \text{ mm}$  and  $500 \times 500 \text{ mm}$  respectively
    - c. 80 x 80 mm and 300 x 250 mm respectively
    - d. 10 x 10 mm and 250 x 250 mm respectively
  - 44. To steady the transparent sheet on the fresnel surface and to prevent it from moving away, we use
    - a. acetate roller knob
    - b. focussing knob
    - c. guide pins in front
    - d. projection mirror
  - 45. Which of the following will give a silhouette when projected with overhead projector.
    - a. any coloured transparency
    - b. any black and white transparency
    - c. transparent objects
    - d. non transparent objects.
  - 46. Which of the follwoing is not necessary to be considered to be relevant when you want to decide on replacement of lamps?
    - a. voltage
    - b. lamp contact
    - c. condensor lens
    - d. wattage

- 47. Which one of the following projection systemsis applicable to the opaque projector?
  - a. reflected projection system
  - b. indirect projection system.
  - c. -direct projection system
    - d.none of the above.
- 48. Why do we darken a room completely when we use an opaque projector?
  - a. we use the reflected light system, as much light is lost.
  - b. we use powerful maps in the projector to avoid dim projection 1 mage.
  - c. we use opaque objects which do not require much light in the room.
  - d. we use indirect projection system, which do not require any light in the class room for real visibility.
- 49. We place a visual on the platen of the opaque projector with bottom of visual facing
  - a. The class, right side up
  - b. The screen, right side up
  - c. The class, right side down,
  - d. The screen, right side down.
- 50. Which one of the following cannot be used for projection in an opaque projector ?
  - a. books
  - b. flat pictures
  - c. transparent pictures
  - d. small metal objects.
- 51. For centering the image on the screen with an opaque projector, you will
  - a. raise or lower elevator knobs.
  - b. raise or lower elevator knobs and lock it.
  - c. raise the elevator knobs and lock it in position.
  - d. lower the elevator knobs and lock it.
- 52. It is said that television combines other visual media in its programmes. Which of the following media is not usually combined in TV medium.
  - a. 16 mm motion picture
  - b. 35 mm slides
  - c. photographs
  - d. programmed text book.
  - M III/1-10/ $C_{\mathbf{T}}$ -9

- 53. Which one of the following is an advantage attributed to television over motion picture, for instructional purposes.
  - a. record the programme
  - b. preserve the programme
  - c. magnification of visuals
  - d. immediate reuse of the programme
- 54. Voltage stabiliser is provided with television in order to get:
  - a. more voltage for bigger pictures
  - b. less voltage for less brighter pictures
  - c. proper voltage for avoiding defects
  - d. reduce inflow of electric current.
- 55. Occassionally telecast reception will be unsatisfactory through no fault of your television receiver or your operation. Which one of the following faults can you categorise under this heading?
  - a. ghosts
  - b. snow on your TV screen
  - c. R.F. interference
  - d. all the above
- 56. Which of the following faults in your TV set occurs due to R.F. interference (radio frequency) ?
  - a. extraneous electrical signals
  - b. break of antenna cable
  - c. ghosts
  - d. snow effect
- 57. Ghosts are usually caused by
  - a. extraneous electrical signals
  - b. weak signals coming from TV stations
  - c. reflected from obstacles before it comes to your antenna
  - d. break of antenna cable.
- 58. When you are to plan for a multi-imagery presentation which one of the following statements is not a criteria for planning.
  - a. In planning multi-image presentation, relate it to a multiimage magazine layout.
  - b. you need not project images on each one of the three screens continually during a presentation.
  - c. Each separate screen is used to treat its own idea or concept.
  - d. In composition, generally major messages should be on the centre screen.

- 59. Which one of the following is the best definition of multiimagery ?
  - a. Multi-imagery is a variety of projections simultaneously made on adjacent screens.
  - b. Multi-imagery is a combination of projections essentially. made by using different projection equipments.
  - c. Multi-imagery, is a way of showing multiple images on a single screen from a number of projection equipments.
  - d. Multi-imagery is a way of showing 16 mm and 8 mm movies together on the same subject in two adjacent screens one sound and the other silent.
- 60. Which one of the following is the best definition of multimedia?
  - a. Multi-media is the sequential use of a variety of instructional media including projection systems.
  - b. Multi-media is a combination of different projection systems only.
  - c. Multi-media is a combination of different non-projection systems only.
  - d. Multi-media is a combination of 16mm movie and sound slide presentations which is presented one after another.
- 61. What minimum letter size you will use for ten metre anticipated maximum viewing distance for projected aids ?
  - a. 6 mm
  - b. 12 mm
  - c. 25 mm
  - d. 50 mm
- 62. The spacing of letters (symbols) for visuals compared to letter height while writing is:
  - a. 1 the height of the letters
  - b.  $1\frac{1}{2}$  times the height of letters
  - c. same height of the letters.
  - d. double the size of letters.
- 63. Which one of the following pairs is the maximum distance for slides, OH transparencies, and motion pictures and for television.
  - a. 6 to 8 times the width of the screen and 16 times the width of TV tube.
  - b. 16 to 18 times the width of screen and 16 times the width of TV tube.
  - c. 8 to 12 times the width of screen and 12 times the width of TV tube.
  - d. 6 to 8 times the width of the screen for both cases.

- 64. The ratio of letter height of art work for slides, transparen- . cies and motion picture will be:
  - a. 1:50
  - b. 1: 25
  - c. 1: 10
  - d. None of the above.
- 65. The ratio of letter height of art work for television is:
  - a. 1: 50
  - b. 1: 100
  - c. 1: 75
  - d. 1: 25
- 66, Which one of the following surfaces will bounce sound and are not accustically good?
  - a. smooth surface
  - b. uneven surface
  - c. draperies
  - d. venetian blinds
- 67. Which one of the following is an effective means of controlling lighting of appropriate quality?
  - a. movable lighting fixtures
  - b. switching unwanted lights
  - c. dimmerstats to control the intensity of light
  - d. not using powerful lights.
- 68. Which one of the following is exclusively an instructional feature of lighting?
  - a. lighting can inspire
  - b. lighting can call to attention the audience
  - c. lighting can emphasise things.
  - d. lighting can give good illumination.
- 69. Which one is not an effective way of controlling unwanted sound effects?
  - a. irregular wall surface
  - b. draperies
  - `c. hard floor surface
  - d. shape of room.
- 70. Which one of the following is not an important consideration for deciding the viewing distance for a projected image?
  - a. spacing of seats and types of furniture
  - b. normal eye level of the viewer and maximum viewing angle
  - c. height of the image
  - d. brightness of the picture.

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Module III Projected Aids

Section 8

Units 1-10 CRITCRION TEST

Time: .90 mts.

Use separate response shaets provided for Section 8. Answer Section A before attempting Section 8, and hand over to your Instructor. DO NOT write anything in the space provided for on the response sheets. RETURN the question paper to your Instructor, with response sheets. Answer Section C after completing Section 9.

- 71. The motion picture combines some of the following special features not available for slides and film-strips. Against the corresponding numbers given in the response sheet tick the alphabets of correct answer.
  - a. Captions with pictures
  - b. animation
  - c. slow motion
  - d. cut sections of diagrams
  - e. magnification
  - f. split frames
  - q. colour
  - h. inserts.
- 72. What is the most important use of the medium of Television in teacher training programmes? Write your answer in the space provided in the response sheet.
- 73. List two advantages of slides used in instruction.
- 74. Enumerate five advantages of filmstrips.
- 75. State two disadvantages of slides.
- 75. Write two disadvantages of motion pictures.

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- 77. Name five trchniques that enhances the utility of motion pictures as media.
- 78. Name three most common elements for any projection system.
- 79. Name three major projection systems that are used in the different projectors-slide, filmstrip, motion picture, overhead and opaque projectors.
- 80. Mark in the sketch given on the response sheet, the position of the projectual.
- 81. Name the projectors in which we place the projectual right side up.
- 82. How is the inversion avoided in the above projectors?
- 83. Figures a and b below show the distortions caused in a projected image, what do you call this ?

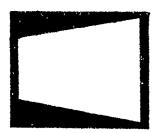


Fig. a

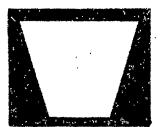
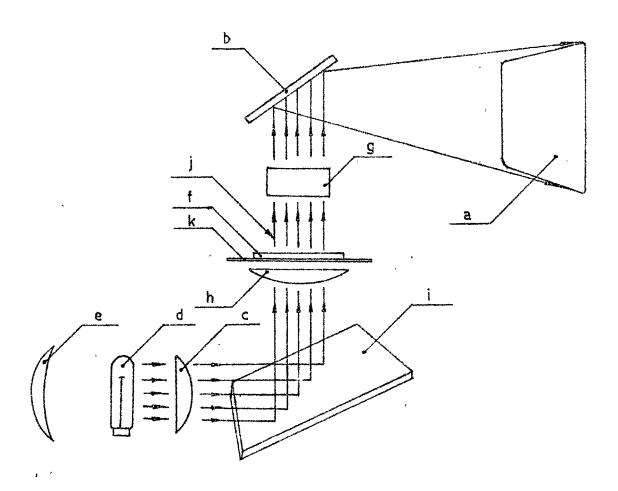


Fig. b

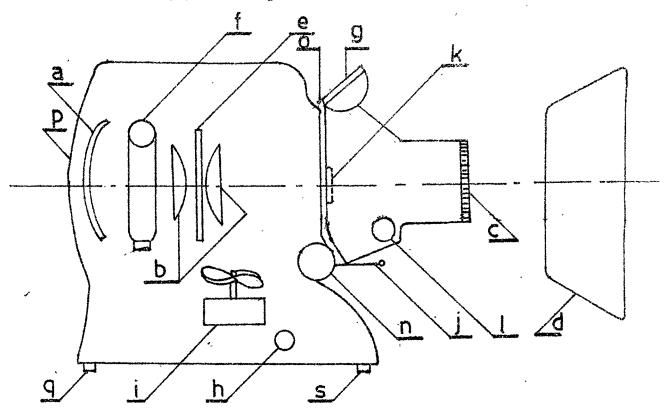
- 84. For rectifying the defect in figure (a), what kind of adjustment in alignment is necessary.
- 85. What kind of adjustment in alignment is necessary for rectifying the defect in figure (b).

86. Here is a diagram of one of the projection systems. Some of the parts are marked by alphabets a,b,c,d etc,. On the response/sheet against this question, the parts are named. Against each name, in the space provided write the appropriate alphabet given in the sketch. You may need more than one alphabet for some items, or you may not need some alphabets at all.

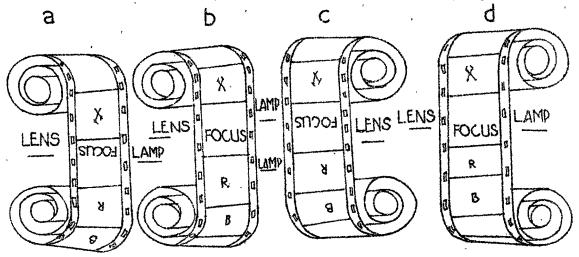


87. Name three types of projection screens available in your Institute.

88. Given below is a picture of filmstrip projector. Parts are marked by alphabets a,b,c,d,e ... s. Given in the response sheet are the names of parts. Write against these names the appropriate alphabet(s) denoting the name.



89. Which one of the following is the correct position of the filmstrip to be inserted into the projector ?



The following projection errors as seen on the screen from a filmstrip projector are to be corrected by adjusting one of the following. Write in the space provided against each figure, the alphabet denoting the adjustment.

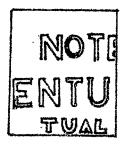
- a. open aperture for double frame.
- b. close aperture for double frame.
- c. close aperture for single frame.
- d. switch on fan.
- e. rotate carrier for double frame.
- f. focussing.

You may use alphabet more than once or do not use some at all.

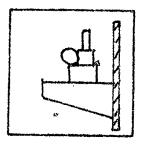
90.



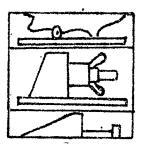
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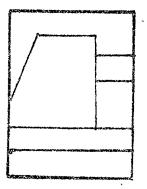
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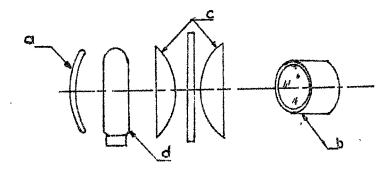
93.



94.



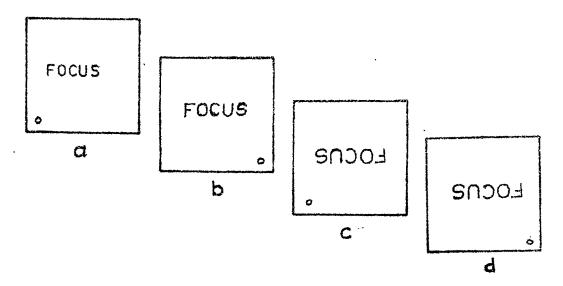
- 95. Name the five components of the projection system.
- 96. State the one among these five (qn.95) responsible for image magnification.
- 97. Marked in the diagram given with alphabets a,b,c and d are certain parts in the projection system of slide projector. Given in your response sheets are names of the parts. Write against the names given, the appropriate alphabet representing the part.



- 98. State two important points to be considered while loading rotery trays of a slide projector.
- 99. In a remote control there are three facilities for adjustments which one of the three will you use for the following situations.
  - a. skip ten slides and advance.
  - b. go back by five slides.
  - c. image on the screen lacks clarity.
- 100. Name four types of slide carriers that are commonly used.

101. Which one of the following thumb spots is correct.

Mark in the response sheet the appropriate alphabet.



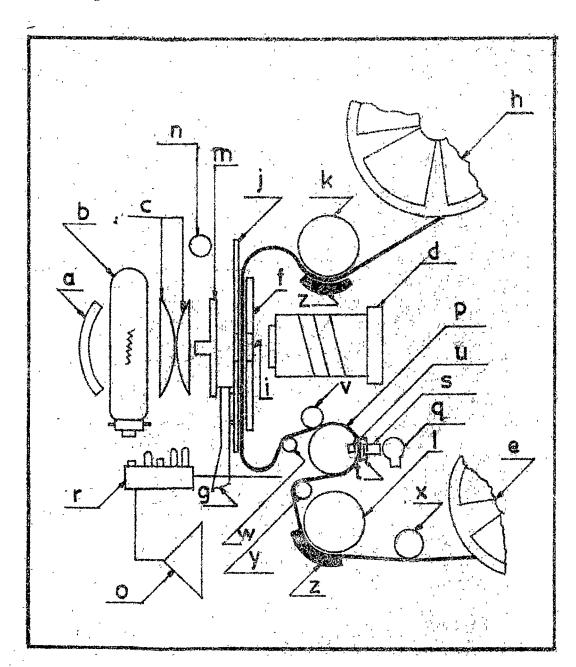
- 102. Name four types of slides other than photographic slides.
- 103. State one most important advantage of slides over filmstrips.
- 104. State two advantages of rectangular and circular slide carriers over single/double slide carrier.
- 105. Name two types of slide formats used.
- 106. The figure given below gives different parts of a motion picture system.

Marked on itarea,b,c,d,s,f, .....x,y,z to denote various parts.

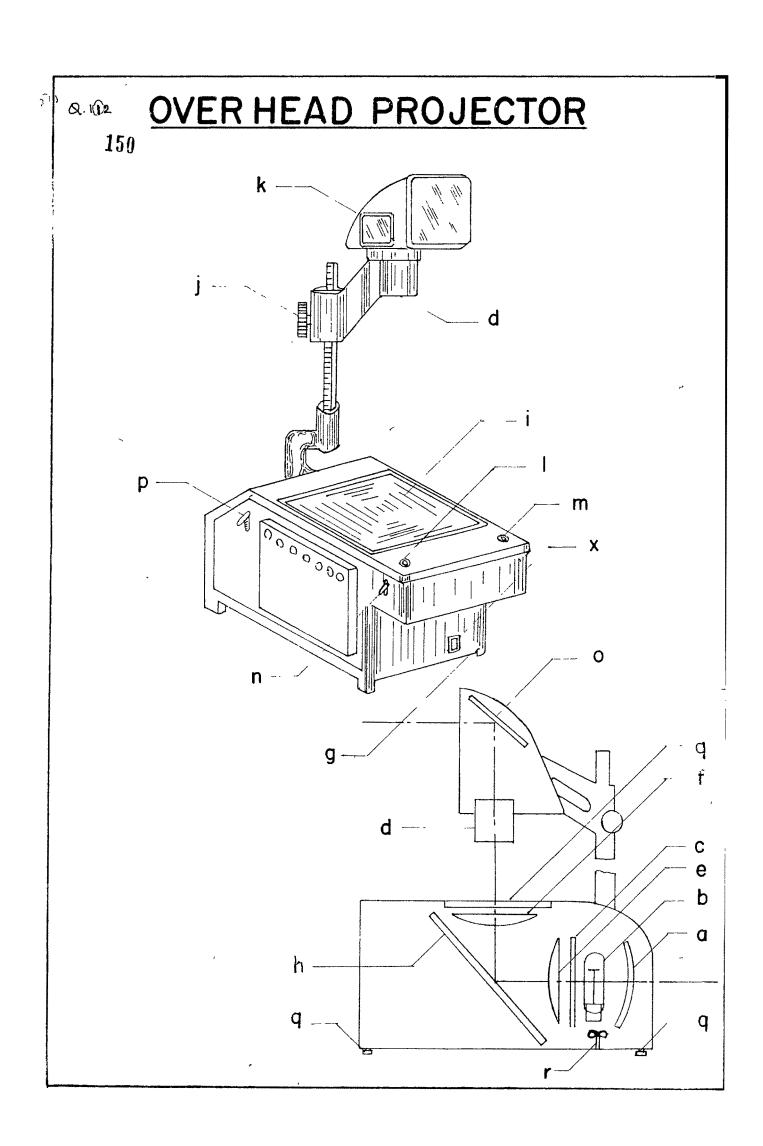
You are required to mark in the response sheet under the following main headings the identification alphabets of corresponding names given there.

You may or may not use all the alphabets.

106. fig.



- 107. Name the two types (kinds) of projectors, classified on the basis of sound recording.
- 109. While threading film in a movie projector, two loops are provided i.e., the upper and the lower loops. State what do you consider is the function of each loop.



- 110. List materials required for joining broken film.
- 111. How are the position of the image on the screen
- 112. Marked in the picture here with alphabets a,b,c;d. ere the different parts of the overhoad projector.

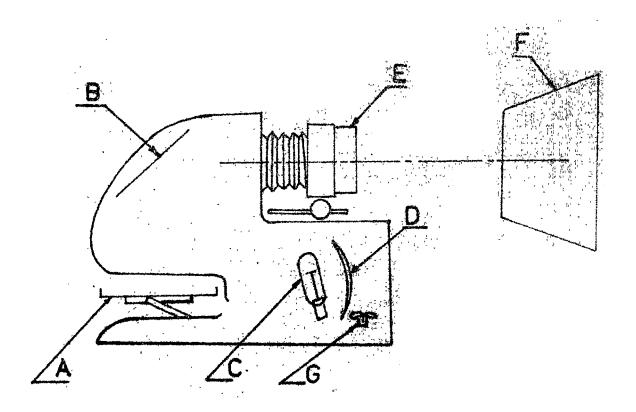
  Given in your response sheet are the names of different parts. Mark in the space provided against each name, the appropriate alphabet. You may use more than one alphabet for one item, or not use an alphabet at all if there are no matching items.
- 113. Write in your rescense sheet against the item numbers under column I, the corresponding alphabet of the name of the material that will be used, i.e., a or b for projection given under column II.

#### COLUMN I

### Column II

- 1. Slide projector
- " arros broleccor
- 2. opaque projector
- 3. filmstrip projector
- 4. 16 mm projector
- 5. overhead projector
- a. transparent materialb. photographic prints
- 114. Marked in the diagram are the following symbols
  A, B, C, D E and F.

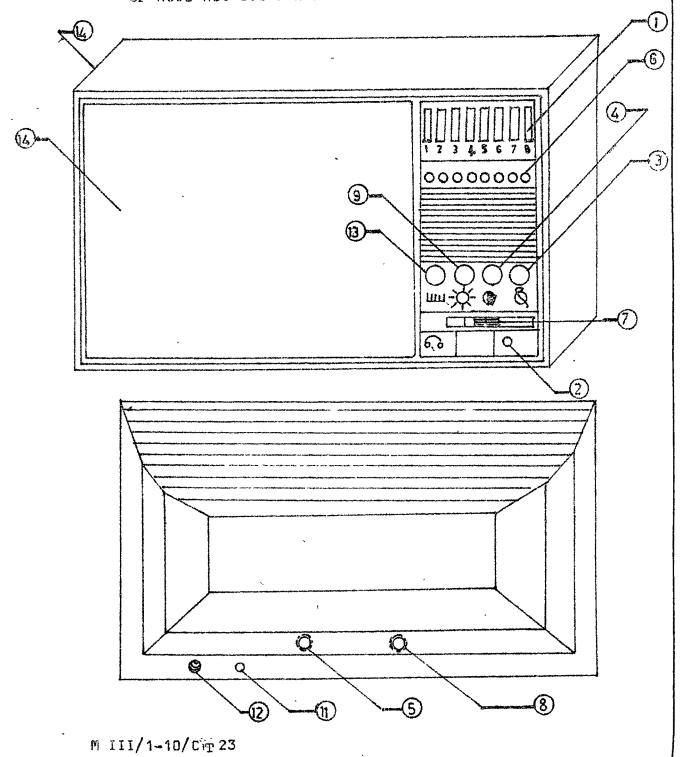
  Against each them given on the response sheet,
  mark the appropriate alphabet in the space provided.



- 115. Mark the arrows of the rays of light from the projection lamp to the screen, in the diagram given on your response sheet.
- 116. Why should you be careful, when you use the metal objects for opaque projection?
- 117. Name the two systems of television that are used for instructional purpose ?

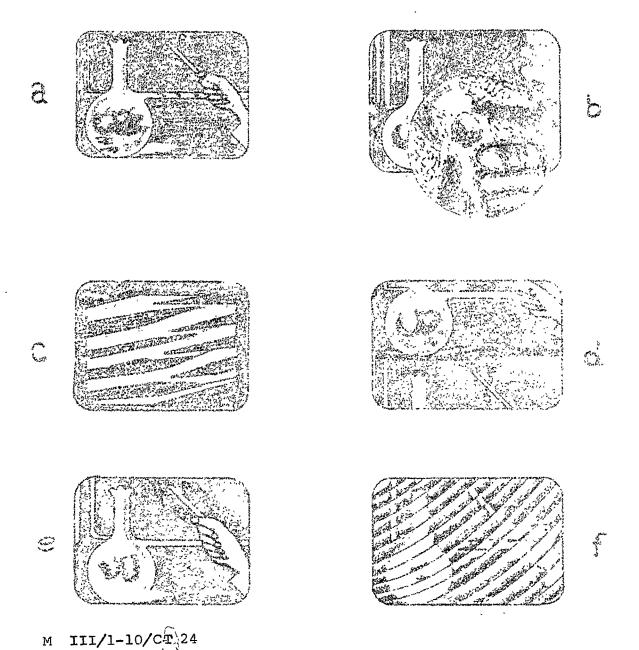
153

118. Marked in this picture are some of the important parts of a TV receiver with numerals 1,2,3 .. 10. Given in your response sheet are the names of items. Corresponding to these names given on the response sheet, write the number 1,2,3 etc,. appropriate to the item. You may use same number more than once, or need not use a number at all.

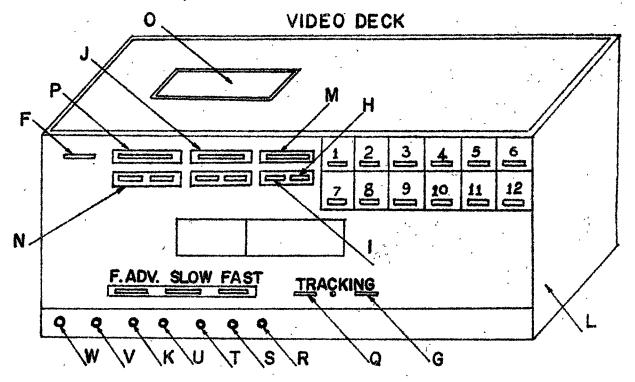


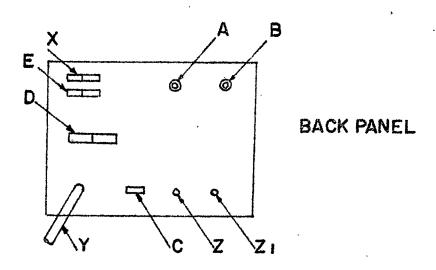
119. What are the five important Teatures of the Weston Video Seck ?

120. Some common defects in TV are shown below. You will have to operate a knob or control to adjust these defects. These operation controls/knobs are given in the response sheet. Now mark against each of these items given on the response sheet, the alphabets given for each of the defects shown by the picture here.



121. You are given pictures of the video deck. Marked in the pictures are alphabets, representing some of the parts, the names of which are given in your response sheet. You are to mark against the names on the response sheet, the corresponding alphabets representing the name. You may use an alphabet more than once, or not use one at all.





- 122. Given below are operations to be carried out in order to get picture on the TV screen, when you lay video cassette. The operation below are not given in the correct sequence. Rearranging the correct sequence by placing the alphabet (which denotes the sequence of operation) in the response sheet.
  - a. Set OPERATION SWITCH
  - t. Switch mains power switch.
  - c. Set video mode.
  - d. Adjust TV receiver to channel 37.
  - e. Switch on TV switch and connect VCR & TV.
  - f. Press STOP key.
  - g. Set the pre-tuner of VCR.
  - h. Press eject key.
  - i. Push in video cassette, right side up and depress holder down.
  - j. Depress play key, run 30 secs.
  - k. Press eject key.
  - 1. Press stop, then rewind key, to rewind.
  - m. Remove cassette and depress holder.
  - n. Switch off all controls.
  - o. Press stop key, when tape is fully rewound.
- 123. List four advantages of multi-imagery presentation.
- 124. List any five purposes served by multi-imagery presentation.
- 125. When you use a stereo system or two track recording how will you record the narration and make necessary arrangements for slide change either manually or automatically?
- 126. Suggest two topics in your subject area which you think can be taught using multi-media approach.
- 127. Differentiate between media for conventional use and multi-media use.

128. Under column I are given some of the aids about which we have been discussing so far. Under column II are given some of the advantages and characteristics. Write on the response sheets against the alphabets representing column I, the numbers of the items given for items under column II, which gives you the specific characteristic advantage for the items under column I. There may be more than one answer for the alphabets and you may not use an item given under column II at all.

### COLUMN I

#### COLUMN II

- a. Multi Media
- b. Multi imagery
- c. O.H.transparency
- d. Motion picture
- e. Filmstrips
- f. Slides
- g. Recordings
- h. Television
- i. Photographs
- programmed Instruction.

- 1. Require no equipment for use.
- 2. Are compact series of projected visuals for use in sequence.
- 3. Flexible and adaptable for both group & independent study. Do not require projection.
- Useful for large groups and projected from front of the room.
- 5. A series of visuals that could be inter-changeable visuals that can be combined with and synchronised with taped narration, usually adopted for large and small groups.
- Are particularly useful for showing relationships describing motion, and useful for large groups.
- 7. Combines different media and offers capability to makeyamalysis of a live action on the spot.
- 8. Combines different media and provides different visuals at the same time with taped commentary and comparison of the situation with possibilities of magnification.
- Seful for individual and group study.
- 10. Combines different media and used in combination with many others both for independent and group study.
- 11. Ensures consistency in presentation of all instructional materials.
- 12. Recognises that students have different learning styles and alternative ways of studying.

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129. Estimate which one of the audio visual aids given under 150 column II best serve the purpose stated in column I<sup>I</sup>. Give against each alphabet under Column I given in the response sheet, the appropriate number of items given under column II. You may have more than one answer, or need not.

# Column I

- a. Outline a process
- b. Skills involving motion
- c. Repairs of intricate parts of a machine.
- d. Identification of small electronic components,
- e. ISī symbols
- f. Different types of walls
- g. Measurement with micrometer

# Column II

- 1. Motion pictures
- 2. Transparency
- 3. Slide series
- 4. Television
- 5. Originals
- 6. Charts
- 7. Poster
- 8. Flannel board
- 9. Magnetic board
- 10. Bulletin board
- 11. Programmed text.
- 130. You are given the task of selecting appropriate media for specific teaching tasks of a course on operation of a numerical control lathe a complicated process. Which one of the following method of presentation would you propose of adopting, for the different groups. The groups are given under column I and the methods of presentation under column II. Write against alphabets on the response sheets the appropriate numbers of items given under column II. There can be more than one method of each.

#### Column I

- Column II
- a. Individual students
- books, workbooks, guide and other publications.
- b. Small group study
- 2. Television programme.
- c. Large sized group
- 3. Sound slide presentation.
- 4. 16 mm sound film
- 5. Lecture with O.H. transparency
- Lecture with students responding to verbal questions.
- 7. Programmed text.
- 8. Lecture -demonstration.
- 9. Multi-media and discussion.
- 10. Simulators.
- 11. Discussions.
- 12. Demonstration.

Now hand over the response sheet to your Instructor before going to Section  $C_{ullet}$ 

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•^*	
	D. Other parts:
	stabiliser snubber pressure roller
	shoes guide roller
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112.	condenser lensesfocussing knob
	fresnel lens front surface mirror
	objective lens projection mirror
	heat filter mirror
	reflector transparency guide pins
	projection lamp acetate roller knob
113.	1. Slide projector 2. opaque projector
	3. filmstrip 4. 16 mm projector
	projector
114.	platen mirror lamp
	reflector screen objective lens

115.

Mirror

Objective lens

<u>Platen</u>	Reflector
Mirror	Projection Lamp
	Motor and fan

1.16 <sub>* ***</sub> *** *** *** *** *** *** *** ***
117. 1 2 2.
118ON/OFF switch horizontal hold contrast
fine tuning vertical hold brightness
screen channel selector volume control
tone control
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120 1. brightness control 2. fine tuning
3. contrast 4. vertical hold
5. horizontal hold 6. Ghosts
?. snow (week signals) 8. Radio frequency
121 1. Aerial 6. main switch11. operate switch
2. eject 7. audio dub12. Video mode switch
3. Play 8. stop video13. Voltage selector
4. pause 9. R.F.Out 14. channel selector
5. Rewind 10. Record 15. Fast forward
16. Cassetts holder

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129.	g •	b.	C	-
	d.	e,	-	
	g . Common de representat de decento o con o	•		
130.	a	ANNA MANNE LACO MISSE COSTO N. TO NOTES I TO MISSE MANNE FAC	n manadaran kurang karangan karangan karangan karangan karangan	, ,,
	b.			

CRITERION TEST.
Time: 60 mts.

Module III

Projected Aids

Section C

## C/1. PERFORMANCE CHECK LIST.

30 mts

Performance check list for operating different projected equipments as indeated against the question numbers are given under 3 or 4 headings. Under each heading write the serial number in the sequence of operation. Items in each heading may be considered separate and complete. Collect separate response sheets for questions 131-135.

- 131. Filmstrip projector.
- 132. Slide projector.
- 133. Motion picture projector.
- 134. Overhead projector.
- 135. Opaque projector.
- C/2. PRACTICALS TO BE DONE AFTER COLLECTING CORRECT CHECK LIST.
- 136. Set up, load and operate a filmstrip projector and show five frames correctly.

  3 mts.
- 137. Set up, load and operate a slide projector using slide trays and remote control. 2 mats.
- 138. Set up, thread film and operate a 16mm movie projector.10mts.
- 139. Fit the projector lamp of a movie projector. 3 mats.
- 140. Clean lens and aperture gate of 16mm movie projector. 2 mpts.
- 141. Set up, and operate an overhead projector to project transparencies and non transparent objects. 3 mts.
- 142. Project pictures and opaque objects using an opaque 2 mts. projector.
- 143. Organise a multi-media presentation, given 20 slides and an audio cassette.
  5 mts.
- 144. Organise a multi-imagery presentation, given two Kodak Cerousel projectors with 120 slides, a dissolve unit and a tape for synchronisation with Philips audio cassette recorder.

Roll Mo:	r isponst sheet fo	OR PRACTICAL EXERCISES
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III Palbroit	eralitat	SECTION C
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R.MD THE QUESTION	PAPER CIVEN FOR GUESTIC	ons 131 - 144.
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INVOLVED. YOU HAV	LE TO DO THESE QUESTION	S YOURSALF
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131	141	
152	142	
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135		
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133	•	
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	Nodule III	Projected Aids	
		Filmstrip Projector	દ
C	CRITERION TEST	SECTION C/1	Question 131.
	list given under are reach step in the correct		
A. SETTIN	IG UP		
CONTRACTOR OF CO	a: Switch motor/lamp. b. Connect power cord. c. Focus. d. Place projector and seconds.		
B. OPERAT	TION		
COMMENTAL CONTROL OF THE CONTROL OF	Place the holder on positive properly insert half and adjust frame line.  Project frame.  Focus.  Change to double frame.  Back up frame upto to adjust frame line and	frame filmstrip int me filmstrip, lastly. wo frames. d project.	
C. PUTTIN	IG AWAY		
*	a. Disassemble. p. Store all cords, file c. Switch off.	mstrips and project	or.

	Module III	Projected Aids. Slide Projector.		
	CRITERION TEST	Section C/2	Question 132	
	e Check list given under linst each step in the co	•		
	م الما الما الما الما الما الما الما ال	است مديد خدا دين مين حدد بين مديد د. 		
Α.	SETTING UP	,		
	a. Connect power co	ord.		
	b. Load slide carri	ier with slides.	3	
	c. Install slide ca	arrier.		
	d. Place projector	and screen in position	1.	
	e. Connect remote of	cord.		
	f. Center light on	screen.		
	g. Adjust image siz	ze to full screen.		
	h. Focus.		,	
	i. Turn on lamp.			
₿.	OPERATION			
	a. Refocuss if nece	essary with remote cont	crol.	
	b. Skip one slide.			
	c. Advance slides.	r		
	d. End showing.			
	e. Go back two sli	des.		
С.	PUTTING AWAY			
	a. Level machine ar	nd retract lens.		
	b. Disconnect power	r & control cords.		
	c. Remove tray, re	move slides atore.		
	d. Turn off lamp.	\v`		
	e. Store accessori	es and projector.		
	M III/1-10/32	•		

Module III Projected Aids Motion Picture Projector Question 133. Section C/1 CRITERION TEST The Check list given under are not in a sequence. Number 1,2,3 ... against each step in the correct sequence, for A,B,C and D Separately. A. SETTING UP a. Place projector on stand, open case and plug in power b. Turn on motor/lamp.change lamp if required. c. If there is reverse control, set it for 'forward' position. d. If there is film selector, set it for sound film 24 f.p.s. e. Place the screen, speaker near the screen, attach speaker cable to the projector. f. Turn on amplifier. g. Move the projector toward or away from the screen to fill the screen with desired area of image. h. Elevate the projector to center the image. \_\_\_\_i. Turn off projector. j. Focus aperture image. k. Check sound system. Adjust volume and tone control. 1. Open film channel, and clean all surfacesover which film passes with a brush. m. Check to make sure that film is properly wound on supply reel. (image head down, sound track nearest projector) n. Attach or set reel arms/drive belts. o. Attach or set both reels firmly on to spindle and lock them in position. (Both reels should be of same size, or take up reel shall be bigger than feed reel. B. THREADING a. Unroll  $1\frac{1}{2}$  metres of film and place film in the feed sprocket. b. Open sprocket shoes. c. Swing open film gate. \_\_\_\_ d. Close sprocket shoe. e. Thread around sound drum and stabiliser.

1° .	See film is taut or draw the film taut around the sound drum before engaging sprocket holes of sprocket wheel.
	. Check once again, that teeth on each sprocket fits $\sim 171$ , the holes in the film.
h.	Thread film over feed sprocket and .close shoe.
**************************************	Take film and through guide roller, forming a lower loop as per markings on the projector.
j.	Leave on upper loop as per markings on the projector, close film gate.
Karrone Jacos K.	Place the film in the film channel.
1.	Check i ${\mathfrak t}$ threading is okay by hand operation knob.
STATES SALES AND THE	Established loops must be accurate as per markings.
n.	Attach film to the take up film through snubber.
C. SHOWING	FILM
• B	Adjust focus when image is visible on screen.
b.	Turn off room lights.
C,	Set sound volume and tone control at mid points.
d.	Turn on lamp.
e.	Turn on motor.
f.	Correct framing if necessary.
g .	Adjust volume and then tone.
h.	Shut off projector, when faults are there, that cannot be rectified during showing, e.g., snapping of film, very bad sound.
i.	Correct focus and adjust sound whenever necessary during projection.
j.	Turn off volume when sound fades and ends.
k.	Turn off lamp, when title fades.
D. REWINDI	NG AND PACKING UP
	Position operate-rewind lever at REVERSE/REWIND.
	Attach end of film to the hub of the feed (supply) reel which is empty now.
C.	Turn several turns counter clockwise.
	Unplug speaker cable, wind the cable, and attach to case
	or speaker as the case may be.
	After film is rewound, turn control switch to OFF.
	Lower front of the projector by turning the elevator knob.
	Push in the drive belts into the interior of the projector case.
	Push in or remove the arms, attach these at proper position,
i.	Unplug power cord and place cord after winding in the space provided.
j.	Retract lens mechanism, elevator mechanism and make certain all switches and controls are normal.
k.	Close and lock lids firmly, after fitting speaker case

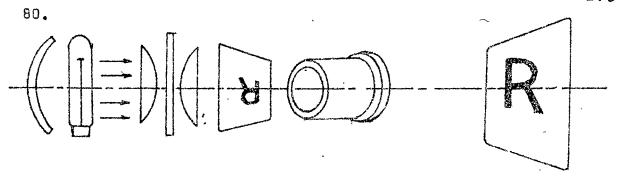
-	Module III	Projected Aids Overhead Projector	e and now that the top the day			
	CRITERION TEST	Section C/1	Question (134.			
aga	e Check List given below against each step in the corg					
Α.	SETTING UP	,				
	a. Connect power cor	d and switch.				
	h. Set up the projec	tor cord and switch on				
	c. Adjust image size	•				
	d. Put test transpar	ency.				
	e. Adjust top mirror	•				
	f. Focus.					
в.	OPERATION					
	a. Replace test tran with overlays and	sparency with a set of manipulate overlays.	`OH transparency			
	b. Replace with a tr Use progressive d c. Using pensil writ	ansparency containing isclosure technique. e on the scroll.	a number of items.			
	d. Attach scroll.	/				
с.	PUTTING AWAY	-				
	a. Pack up power cord	S.				
	b. Switch off and bri	ng to normal the posit	ion of parts.			
-	c. Remove and pack up	transparency.				
	m III/1-10/35					

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	Module III '	Projected Aids Opaque Projector	
	CRITERION TEST	Section C/1	Question 135.
	list given under are neach in step in the corr		
b. C. d.	G UP  Place projector and s  Adjust focus.  Connect power & switch  Insert a flat picture  Elevate & level.	h lamp.	
9	ION . Show a photograph. . Show book pagec. . Show small metal obje	ct <b>y.</b>	
section treatments j	G AWAY  Remove materials  Place cover.  Retract lens.  Remove power cords an	d atana	,
minutesis din programa	e managa pawar agraw an		

174 KEY

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PRE	TEST	POST	TES	T	RESP	ONSE	SHE	ET		MOIT	Α
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. 6	þ	<b>(b)</b>	b	<b>(b)</b>	b	<b>(b)</b>	b	b	, <b>b</b>		0
c C	<b>©</b>	G		, <b>c</b>	<b>©</b>	<b>G</b>	C.	<b>(e)</b>		6	
(d)	4	4	d		d	d	d .	d	<u> </u>		- C
13	(4)	(5)	16)	(17)	(18)	(19)	(20)	(2)	(22)	(25)	(24)
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25	26	<b>②</b>	29	29	30	3)	(52)	(33)	(34)	<b>(35)</b>	<b>(3)</b>
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37	39	39	<b>60</b>	<b>43</b>	<b>4</b> 2	(43)	<b>(4)</b>	49	<b>66</b>	47	48)
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49	<b>50</b>	6	<b>(52)</b>	<b>(53)</b>	54)	<b>65</b>	, ,	<u> </u>	(58)	<u>(60)</u>	60
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72.	<u>I mn</u>	edia	te f	ed ba	ack a	nd an	<u>aly</u> s	is of	_perf	or	mance	<u>.</u>		
73.	1.	They	are	flex:	<u>ible</u>	and c	en r	eplac	e mis	si	ng or	brok	en o	nes.
	2.	Cont	ent_	ean_b	e_cha	nged :	with	out_m	uch_e	xt	ra_co	st.		
74.						in p							,	
,	4.	Egui	bweu.	t op	erat	ompare ion is	sin	ple.		of	<u> Brodu</u>	ction	<u>.</u>	
75.			<b></b>	·- ·- ·- · · · · · · · ·		<u>plac</u>		t at	times	<u>.</u>		-		,
76.	2.	<u>Very</u>	_dif	ficul	<u>t to</u>	get r	eady	<u>made</u>	film	18_	to su	it o	gject	
77.	3,	-	ific	<u>n</u> ation		,		<u>Slow</u> <u>Showi</u>			<u>t fr</u> a	mes		
78.				<u>sourc</u> ystem	<del></del>		2.	A sc	er een	<u>(</u> P	<u>roje</u>	tion	surf	`ace)
79.	2.	Indi	rect	<u>proj</u>	ecti	syste on sys lectio	tem.		•					
	•		ニュニュ	211		====±	<u>니</u>							



- 81. Overhead\_projection opaque\_projector.
- 82. Use of mirrors
- 83. Keystone effect.
- 84. Horizontally.
- 85. Vertically.
- B6. d lamp c.h condenser lenses objective lens

  a screen f fresnel lens reflector
  b.i mirrors
- 87. 1. Portable screen 2. Wall mounted 3. Projection area on wall
- 88. a reflector h elevator knob i fan and motor

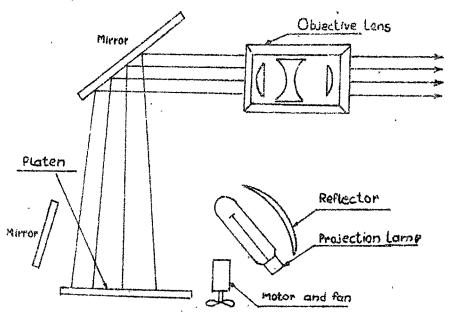
  f lamp m switch b condenser lenses

  e heat filter n film advance knob c objective lens

  g filmstrip carrier d screen l focussing lens

  o framer k aperture j feed slot
- 89. c 90. c 91. a 92. e 93. c 94. a
- 95. 1. objective lens 2. condenser lens 3. lamp
  - 4. reflector 5. heat filter
- 96. Objective lens

	D. Other parts:	
	y stabiliser x	snubber v pressure roller
	z shoes <u>W</u>	guide roller
107.	1. Magnetic	2. Optical
108.		ovement of film past aperture.
109.	1. Lens	2. Film gate
110.	1. Film cement	2. splicer
111.	<ol> <li>Raising and lowering us</li> <li>Adjusting foot screws.</li> <li>Tilting mirror assembly</li> </ol>	
112.	e,f condenser lenses i fresnel lens d objective lens c heat filter a reflector b projection lamp	j focussing knob k front surface mirror o projection mirror h mirror l,m transparency guide pins n,p acetate roller knob
113.	1. slide projector a  3. filmstrip projector a	<ul><li>2. opaque projector b</li><li>4. 16 mm projector a</li></ul>
114.	www.k.sty.com.com	eror <u>C</u> lamp
	MONTH TEN 1941 3	MOURE COMMAND AND AND AND AND AND AND AND AND AND



- 116. Will get heated quickly
  - 117. 1. Telecast.

- 2. C.C.T.V.
- 118. 2 ON/OFF switch 8 horizontal hold 4 contrast

  6 fine tuning 5 vertical hold 9 brightness

  14 screen 1 channel selector 7 volume control

  3 tone control
- 119, 1. Video deck can record, simultaneously TV can receive telecast.
  - 2. Pre-recorded video tage can be played to receive TV picture.
  - 3. Still frame and frame by frame picture can be viewed.
  - 4. Pre-recorded programmes can be seen upto 3 hours continuously.
  - 5. compact and light.
- 120. s 1. brightness control b 2, fine tuning a 3. Centra st

  d 4. vertical hold c 5. horizontal hold 6. ghosts

   7. Snow f 8. Radio frequency.
- 121. A 1. Aerial D 6. main switch F 11. operate switch

  G 2. eject K 7. audio dub X 12. video mode switch

  J 3. play M 8. stop video C 13. voltage selector

  N 4. Pause B 9. R.F. out L 14. Channel selector

  I 5. Rewind P 10. Record H 15. Fast forward.

  O 16. Cassette holder

122.	1.	2 · waste	3.	4 · ·	5,	189
	6.	ecum - Charletoninemes continue	8.	9.	10.	parameter than the second seco
	11.	12.	13.	14.	15.	n. renaciona
123.	1.	Can use diff	<u>erent proje</u>	cted aids.	,	
	2.	Exciting exp	erience.			
	3.	Better/effic	ient means	of communi	cation	
		Large amount			•	ed.
124.	3.	Wider view Compares & c	contrasts.	angles. ip 5. Devel	ubject from Lops concep metically.	
125.	Re	cord narratio	ons on first	track and	duse the s	second track
	for	cueing sign	<u>nals – eith</u>	er by voice	e for manua	l or an
	in	-audible puls	se for auto	-synchronia	sation.	
126	1.	See individu	ial sundest:	ions & ann	rooriatenes	88.
-	•	Some upon upon some i final para de cale da esta en apara de		and the same are made and	e to the period and the total	
	2.	Facility (1974 - 1975) 1975 - 1975 - 1975 - 1975 - 1975 - 1975 - 1975 - 1975 - 1975 - 1975 - 1975 - 1975 - 1975	etill major jede bjete uskila se etill major major tiller gr	alle alton genera mellen pillet.	y hem trap etait man and	- Anne 1980 L 1920 EPP
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727		• Conventions				
	2	. <u>Conventions</u>	al media tre	<u>eats a top:</u>	<u>ic, multi n</u>	nedia treats
		a concept u	<u>vithin a to</u> p	pic.		•
	3	• Conventions	al media ser	ves genera	<u>al purpose</u>	and broad
		objective,	multi media	serves, s	specific ot	ojective.
	4	. Conventions	al media cou	uld be pass	sive - in_r	nulti media

active student participation is built in.

5. în conventional media all students have no choice but

to view and hear at the same time. Multi media offers

Variety of materials from which students can choose.

128. a. 9,10,12. b. 9,12

c. <u>4</u>

d. 6,9,11

e. <u>2,9</u>

f. 5,9

g. <u>3.9</u>

h. 7,11

i. 1,9

j. 1,3

129. a. <u>1,8,9,10</u> b. <u>1,4</u>

c. 1,2,3,4

d**.** 5\_\_

e. 2,3,6

f. 1 to 6, 8,9

g. 1 to 6,8,9,11

130. a. 1,2,3,4,7,10,12

b. 1,2,3,4,5,6,7,8,9,10,11,12

c. 1,2,3,4,5,7.

	Module III KEY TO CRITERION TEST	Projected Aids. Film Strip Projectors SECTION C/1 Question 131.
Nu	e check list given under are mbers 1,2,3 against ear A,B and C separately.	e not in a sequence. Put ch step in the correct sequence
Α.	SETTING UP  3 a. Switch on motor/la  2 b. Connect the power  5 c. Focus.  1 d. Place the projector  4 e. Center the light o	cord. r and screen.
8.	2 a. Place the holder of the properly insert hat the second of the project frame.  4 d. Project frame.  3 e. Focus.  10 f. Insert double frame.  7 9. Focus again and profession of the back up frame upto the second of the secon	e filmstrip lastly. roject two frames. and project. me exposure, and focus.
С.	PUTTING AWAY  2 a. Disassemble.  3 b. Store all cords, f.  1 c. Switch off.  M III/1-10/KCT/C/131	ı

	ن میں چینے شام میں بھی مارٹ میں است ہوں جین شام است میں شام ہوں ہے۔		نعار پنج معد 🕶 🖚 بند بحد ميد سند عبد نند بند مد
Module ]	III	Projected Aids	
KEY TO		Slide Projector	
CRITERION	I TEST	Section C/1	Question 132
	ist given under are gainst each step in ately.	,	
A. SETTING L	JP ,		
2 a.	Connect the power	cord.	
4 b.	Load the slide car	rier with slides.	
5 c.	Install the slide	carrier.	
1 d.	Place the projector	& screen in pos	ition.
3 0.	Connect the remote	control cord.	
7 f.	Center the light o	n screen.	
9 9.	Adjust the image s	ize to full scree	n.
8 h.	Focus.		
6 i.	Turn on the lamp.		
B. OPERATION	<u>V</u> ′		
2 a.	Refocus if necess	ary with remote c	ontrol.
3 b.	Skip one slide, us	e remote control.	
1 0.	Advance slides, us	e remote control.	
6 d.	Show the End.		
4 e.	Skip back two slid	es.	
5 f.	Show slide number	10.	•
C. PUTTING	ашау		
3 a.	Level the machine	and retract the l	.ens.
4 b.	Disconnect the pow	er & control cord	ls.
	Remove the tray, r	emove slides, sto	ore them.
	Turn off the lamp.		
	Store the accessor	ies & projector.	

Module I	II	Projected Aids	
		Motion Picture Proje	ector
KEY TO CRITERIO	N TEST .	Section C/1	Question 133
1,2,3 a		not in a sequence, the correct sequence	
A. SETTING	UP -		
1 a.	Place the projector plug in the power (	on stand, open the	case and
7 b.	Turn on the motor/	lamp, change lamp if	required.
6 C.	If there is a rever position.	ese control, set it	for 'forward'
5 d.	If there is a film 24 f.p.s.	selector, set it for	sound film
2 e.	Place the screen, the speaker cable	speaker near the scr to the projector.	een, attach
3 f.	Turn on amplifier.		
9 9.	Move the projector to fill the screen	towards or away fro with desired area o	m the screen f image.
B h.	Elevate the project	tor to center the im	age.
11 i.	Turn off the proje	ctor.	
10 j.	Focus the aperture	image.	
<u>13</u> k.	Check the sound sysand tone control.	stem. Adjust the vo	lume(
12 1.		nel, and clean all t sses, with a brush.	he surfaces
15 m.	Check to make sure on the supply reel track nearest proj	that film is proper . (image head down, ector.)	ly wound sound
<u>4</u> n.	Attach or set the	reel arms/drive belt	s.
14 0.	the spindle and lo reels should be of	the reels firmly on ck them in position. same size, or take- er than feed reel).	(Both

## B. THREADING

	3	a.	Unroll $1\frac{1}{2}$ metres of film and place the film in the feed sprocket.
	2	b.	Open sprocket shoes.
	1	c.	Swing open film gate.
	10	d.	Close sprocket shoes.
	8	€.	Thread around sound drum and stabiliser.
	9	f.	See that film is taut or draw the film taut around the sound drum before engaging sprocket holes of sprocket wheel.
	11	9.	Check once again, that teeth on each sprocket fits the holes in the film.
	4	h.	Thread the film over feed sprocket and close shoes.
	7	i.	Take the film and through guide roller, forming a lower loop as per markings on the projector.
	6	j.	Leave on upper loop as per markings on the projector, close film gate.
	5	k.	Place the film in the film channel.
	14	1.	Check if threading is okay by hand operation knob.
	12	m.	Established luops must be accurate as per markings.
	13	n.	Attach film to the take up film through snubber.
С.	SHOWIN	VG I	<u>FILM</u> .
	5	a.	Adjust focus when image is visible on screen.
	2	b.	Turn off the room lights.
	_1	C.	Set sound volume and tone control at mid points.
	4	d.	Turn on the lamp.
-	3	е.	Turn on motor.
	7	f,	Correct the framing if necessary.
	6	9.	Adjust the volume and then tone.
	9	h.	Shut off the projector, when faults are notified that cannot be rectified during showing, e.g. snapping of film, very bad sound.
	8	i.	Correct focus and adjust the sound whenever necessary during projection.

11 j. Turn off the volume when sound fades and ends.

10 k. Turn off the lamp, when title fades away.

м III/кст /с/133-2

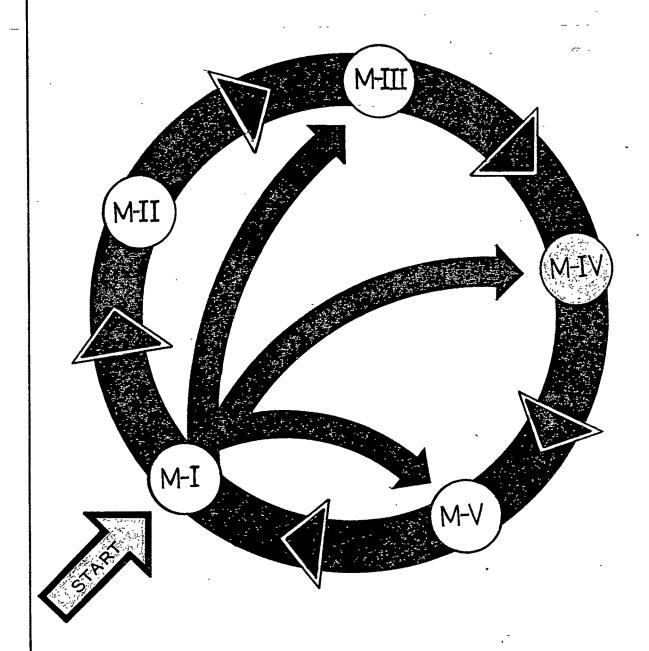
#### D. REWINDING AND PACKING UP

- a. Position the operate-frewind lever at REVERSE/
  REWIND. Turn control switch of the projector to
  on.
- 1 b. Attach end of the film to the hub of the feed (supply) reel which is empty now.
- 2 c. Turn several turns counter clackwise.
- d. Unplug the speaker cable, wind the cable and attach to case or speaker as the case may be.
- 4 e. After the film is rewound, turn the control switch to OFF.
- 5 f. Lower front of the projector by turning the elevator knob.
- 9 g. Push in the drive belts into the interior of the projector case.
- 8 h. Push in or remove the arms attach these at proper position.
- 7 i. Unplug the power cord and place cord after winding in the space provided.
- 10 j. Retract the lens mechanism, elevator mechanism and make certain that all switches and controls are normal.
- 11 k. Close and lock the lids firmly, after fitting speaker case over projector (if your projector is so designed).

Module III Projected Aids Overhead Projector KEY TO CRITERION TEST Section C/1 Aquestion 134  The check list given under are not in a sequence. Put numbers 1,2,3 against each step in the correct sequence, for A,8 and C separately.  A. SETTING UP  2 a. Connect the power cord and switch.  1 b. Set up the projector cord and switch on.  5 c. Adjust the image size.  3 d. Put the test transparency.  4 e. Adjust the top mirror.  6 f. Focus.  B. OPERATION  1 g. Replace the test transparency with a set of O.H. transparency with overlays and manipulate overlays.  2 h. Replace with a transparency containing a number of items, for progressive disclosure.  4 i. Using pencil write on the scroll.  C. PUTTING AWAY  2 k. Pack up the power cords.  1 l. Switch off and bring to the normal position the projector and parts.  3 m. Remove and pack up the transparency.	الله الله الله الله الله الله الله الله	چهو پهي انتخا دي اينا کر د اينان کيد کيا کيا. کيد کيد کيا کار کي کي کيد کيد کيد کيد اين اين کي کيد کيد کيد کيد د
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<ul> <li>3 j. Attach the scroll.</li> <li>C. PUTTING AWAY</li> <li>2 k. Pack up the power cords.</li> <li>1 l. Switch off and bring to the normal position the projector and parts.</li> </ul>	2 h. Replace with a tran of items, for progr	sparency containing a number essive disclosure.
C. PUTTING AWAY  2 k. Pack up the power cords.  1 l. Switch off and bring to the normal position the projector and parts.	4 i. Using pencil write	on the scroll.
<pre>2 k. Pack up the power cords. 1 l. Switch off and bring to the normal position the projector and parts.</pre>	3 j. Attach the scroll.	
1 l. Switch off and bring to the normal position the projector and parts.	C. PUTTING AWAY	
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3 m. Remove and pack up the transparency.	1 l. Switch off and brin projector and parts	g to the normal position the
	3 m. Remove and pack up	the transparency.

M III/1-10/KCT/C/134

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Module III Key to	Projected Aids Opaque Projector
Criterion Test	Section C/1 Question-135
1,2,3 against each step in and C separately.	not in a sequence, Put numbers the correct sequence, for A,B
A. SETTING UP	·
<ul> <li>1 a. Place the projector</li> <li>5 b. Adjust focus.</li> <li>2 c. Connect the power</li> <li>3 d. Insert a flat pict</li> <li>4 e. Elevate &amp; Level th</li> </ul>	ure.
B. OPERATION	
1 f. Show a photograph. 2 g. Show book pages. 3 h. Show small metal o	bjects.
C. PUTTING AWAY	,
1 i. Remove the materia 4 j. Place the cover 3 k. Retract the lens. 2 l. Remove the power c	



KRISHNAN.

Module IV Duplicating Processes Section A.

Units 1-5 CRITERION TEST

Time: 15 mts.

Use separate response sheets provided for Section A, Section B and Section  $C_{\bullet}$ 

Answer Section A first, hand over it, then Section B. Answer Section C last.

DO NOT write anything in the question paper; Return the question paper to your Instructor.

Circle appropriate letter(s) a,b,c or d for Section A on response sheets.

- The process of producing copies from a prepared master/Stencil is known as
  - a) Photo Copying
  - b) Duplicating
  - c) Xero-graphing
  - d) Mimeographing
- 2. You are required to make 20 copies of a monthly test paper for your class immediately. Among the methods given below, which one will you suggest for this purpose?
  - a) Electronic Stencil Scanner
  - b) Stencil Duplication
  - c) Mimeography
  - d) Spirit Duplication
- 3) An instruction sheet about 'Safety' is to be distributed among 500 trainees of your institute. While one of the following processes will you suggest for preparing these copies.
  - a) Hectographing
  - b) Mimeographing
  - c) Photo Copying
  - d) Printing

- 4. If you are required to produce one copy of a printed text page with illustration, Which one among the following will you adopt?
  - a) Mimeography
  - b) Mimeograph with electronically scanned stencil
  - c) Hectography
  - d) Electrostatic Copier
- 5. A brochure is to be prepared for your institute as a publicity material. The brochure contains coloured photographs and other matters. Among the following processes which one will you recommend if you are to make about 6000 copies?
  - a) Spirit Duplicating
  - b) Photocopying
  - c) Printing
  - d) Mimeography with electronically scanned stencil
- 6. You are required to prepare a stencil from one original which illustrates the stencil view of an assembly containing minute details. You also need 200 copies of this material. Among the methods suggested below, Which one would you consider will give the best results?
  - a) Drawing by hand using a stylus
  - b) Electronic Stencil Scanner
  - c) Hectography
  - d) Majox
- 7. Among the items listed below, indicate the item which you consider is not a controlling factor, if the quality of copies produced by spirit duplicating process is the criterion factor.
  - a) Master paper
  - b) Exposure time
  - c) Carbon
  - d) Fluid
- 8. The kind of paper used for preparing spirit duplicating master is
  - a) Wax coated paper
  - b) Tissue paper
  - c) Tracing paper
  - d) Glazed paper

- 9. While preparing a spirit duplicating master on typewriterthe ribbon position should be
  - a) Normal
  - b) Neutral
  - c) Ribbon removed
  - d) None of the above
- 10. While preparing a stencil using a typewriter for stencil duplicating, the position of typewriter ribbon should be
  - a) Neutral
  - b) Normal
  - c) Red colour
  - d) Black colour
- 11. The problem of creasing of stencil when stencils are reused can be avoided by
  - a) Pulling both ends together and lay the stencil on the screen.
  - b) Ironing the stencil before mounting.
  - c) Fix the stencil and run manually in low speed.
  - d) Fix one end of the stencil on the screen and stretch the other end by pulling and lay on screen.
- 12. The Stencil used in India .for the electronic stencil scanner (Gestetner ESC 79) is
  - a) Gestafax 200
  - b) FAXIL 300
  - c) Wax coated stencil
  - d) Dry type G.
- 13. Which of the following is <u>not</u> an advantage of electronic stencil cutting.
  - a) Multi coloured copies can be made from stencils cut.
  - b) Dont need a dark room.
  - c) Stencils of half tone material can be made
  - d) Illustrations from originals can be made perfectly.

- 14. The proportion of toner concentrate and dispersant in the toner mixture of "Lennox 200" Photo copier is
  - a. 10 c.c.

-- 1 litre

b. 60 c.c.

-- 1 litre

c. 6 c.c.

-- 1 litre

d. 1 litre

-- 10 c.c.

- 15. The Lennox 200 copier is an electro static copier which will produce copies from originals of any
  - a. page of a bound book.
  - b. sheet of printed matter
  - c. coloured chart of A3 size.
  - d. sheet of  $8\frac{1}{2}$  or 216 mm maximum width.
- 16. When using Lennox 200 copier, Which one of the following reasons is not a criterion for using a carrier sheet.
  - a. original is flimsy
  - b. Thick sheet of originals
  - c. Very small tiny matter.
  - d. Badly torn and crumpled paper.

   	AUDIO VISUAL	EDUCATION	
1		RE	SPONSE SHEET
Roll	No:		Module IV ., Unit 1√5⁄
Trade	: 		Section A
1	2	3	4
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i b	ь	b	b I
1 0	c	6	C
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13	14	15	16
a ı	a	а	a
ь	b	b	ь
ı	c	C	C I
d i	d	d	d t

Module IV Duplicating Processes Time: 40 mts.
Units 1-5 CRITERION TEST Section B.

Use separate response sheets provided for section B. Answer Section A before attempting Section B, and hand over to your instructor.

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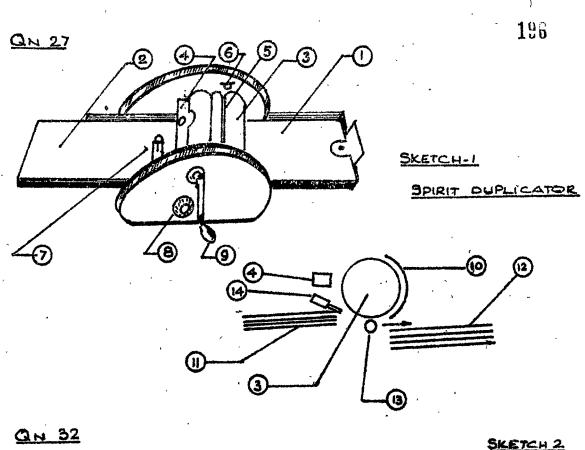
DO NOT write anything in the question paper. Write each answer in the space provided for on the response sheets.

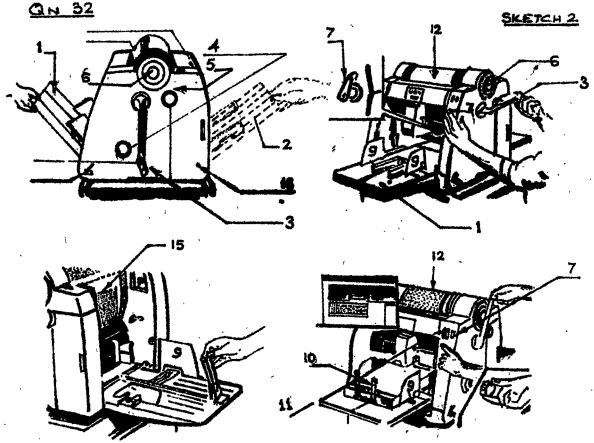
RETURN the question paper to your instructor, with response sheets.

ANSWER section C after completing Section B.

- 17. Name the four commonly used duplicating processes.
- 18. What are the three methods of preparing stencils for duplicating instructional materials.
- 19. While you are developing instructional materials for skill training and duplicating the copies, there are five general points to be considered. What are they -
- 20. When instructional materials are prepared, we should ensure that all trainees understand the content and remember it for a long time, Suggest in your own words three aspects to be considered for achieving this.
- 21. Name the three types of Photo copying process.
- 22. A copy you have cyclostyled is found to be defective, the copies get cropped during duplication. Suggest how the problem is solved in your own words.
- 23. Some times on instructional materials the letterstyles are changed intentionally. From your experience of this course what do you think is the purpose of this?

- 24. On written instructional materials you would have noticed space between blocks of information. What is the idea of this?
- 25. You have prepared several spirit duplicating masters and made copies from it. Based on your experience, state four advantages of spirit duplication process.
- 26. Explain the functions of the following parts of spirit duplicator in not more than one sentence for each.
  - a. Drum
  - b. Feed tray
  - c. Felt pad
  - d. Fluid tank
  - e. Counter
- 27. In the sketch given at the end of this section (sketch) the parts of a spirit duplicator are indicated as 1,2,3, ... Against the names given in the response sheet write the appropriate number.
- 28. You are to prepare a master pack for spirit duplicating. Describe the arrangement of papers in the pack.
- 29. State three safety precautions to be observed while using spirit duplicator.
- 30. Name the four essential items for making copies using mimeography.
- 31. State the basic principle of stencil duplication.
- 32. The sketch II given at the end of this section is of stencil duplicator with some of its parts marked 1,2,3 ... against the names given in the response sheet write the corresponding number.
- 33. Explain, how you can prepare an overhead transparency using electronic scanner.
- 34. You have a two speed operation in an electronic scanner
  - a. What are they ?
  - b. What is the purpose of the two speeds ?
  - c. State two situations where you would use each speed.





M IV/1-5/CT-7

with the test man are too too too too too and too are get man one and too too	RESPONSE SHEET
Roll No:	Module IV Unit 1-5
Trade:	Section B.
17. 1.	
2	
3.	
4 ·	
18. 1.	
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	Acceptants
3.	e <del>stinatus</del>
21. 1.	
2.	
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22.	- 
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23.						
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24.						
25.	-					
	C			omico-Projekto		
26.	a		Continued (Congress of the Congress of the Con			
			Allermonia de la compania de la comp			
	e				· .	
27.		Construction of the same of th	_ feed tray		Impression	n roller
			_ receiving tray		Master	
	# <b>***</b>		_ fluid tank		hand <b>l</b> e	4
	***		_ drum		Master hol	lding .
,	***************************************		copy paper			
	<del></del>		_ duplicated paper	<u> </u>	felt pad.	
28.	a					
	b					
		1				
29.	. a					
				-		

30. a. b. c.		-
d.		
31.		
32•	print height adjuster handle collecting tray ink selector	feeding unit feed board back guide side guide hand feed lever stencil drum
33.		
c.		

Module IV Duplicating Processes

Section C

CRITERION TEST

Time: 60 Mts.

Use separate answer sheets for Section A, Section B and Section  $\mathbb{C}_{\bullet}$ 

DO NOT write anything on this question paper.
RETURN the question paper along with your responses.
ANSWER Section C after completing Section A and
Section B.

#### C/1. PERFORMANCE CHECK LIST

Performance check list for operating different duplicating equipment are given separately for each of the question below. This check list may not be in the correct sequence of performance re-arrange the check list in order and make it in the correct sequence by placing the appropriate number indicating the sequence.

Note: - Collect separate response sheets provided for each one of the equipment operation.

- 35. Spirit Duplicator
- 36. Stencil Duplicator
- 37. Electronic Scanner
- 38. Photo copier.

#### C/2 PRACTICALS

- 39. Prepare a handwritten master sheet with illustrations in two colours for spirit duplicating, using duplograph master sheet and hectograph carbon sheet for a given illustration in five minutes.
- 40. Using the prepared master sheet make 10 copies on a spirit duplicator in 2 minutes.

- 41. Make a hand written stencil for duplicating the given illustration in 10 minutes.
- 42. Duplicate 10 copies from the stencil prepared by you, using Gestetner Duplicating Machine in 2 mts.
- you, use 43. Using Gestetner ESC 79 stems a given line drawing in  $2\frac{1}{2}$  minutes.

  44. Prepare a copy of the given original using a Lennox 200 copier.

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YOU GLANT DO PERFURGE	.J	Table 121
35	L <sub>i</sub> O .	
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37	42	- Constitution of
33	43	an anna
30	4,4,	, sometiment

Module IV	Duplicating Processes
⊍nit <b>1-6</b>	Spirit Duplication
The following check list	Operating a <b>Spirit</b> Duplicator. is not in an orderly sequence. st each of the sub heads in the
Insert paper in to Rotate and check Clean duplicator	any ss of felt, wet if necessary he feed tray for proper flow of fluid
Remove the cover.  II. ATTACH-MASTER:	, T.,
Insort the tup edg (about 5.mm) Turn handle to 7 '	g to normal ocked position. ter slock wise.
spirit, paper and	aper continuously, sheck continuously other adjustments. flow and adjust if needed

Set counter for copy numbering
Adjust impression strength
Adjust margin (top and bottom)
EAVE MACHINE:
Remove and store spirit
Set copy control knob and pressure control knob to zero
Replace dust comer
Rotate block wise again, close _ clamp lover, leave drun to normal position.
Remove and store unused paper
Stop handle to 7 'D' clock position.
Rotate counter Člokwise, open clamp
File master after stapling to it a specimen
Remove master without touching the carbon impression
Clean the machine and,

Mod	 dul	le IV Duplicating Processes
C1/36		Operating Stencil Duplicator
		check list given under is not in a sequence.  3 against each step in the correct sequence,  ds A,B,C and D separately.
A. READY	MAE	CHINE:
La sidop a complicida deligion del	a.	Connect power plug to electrical socket.
THE PERSON AND ADDRESS.	b.	Check, that feed lever is raised and give handle, one complete clockwise turn, to ensure feed mechanism is not operating.
<del></del>	C.	Remove cover.
totale de la companya	d.	Lower feed board and collecting tray
B. INKING	•	
	a.	Hold ink tube by its shoulder and remove its cap.
NEEDHNANDE AFTA WAR A	b.	Insert tube nozzle in a tube holder.
nglespellenessenskertudestude	c.	Place crimpled end in 'V' of tube support.
ORDER DOM: PTENNINGS	d.	Open inker door.
Marianta - Canala - P - PP 1 at	e.	Push tube locking lever fully downwards until roller is at extreme end of slot.
SANSON AND AND AND AND AND AND AND AND AND AN	f.	push nozzle fully into holder.
manda an paralague anadar na	9.	Raise tube locking lever.
MANAGEMENT TO THE CONTRACTOR OF THE CONTRACTOR O	h.	Press gently until tube nozzle is in level with tube holder.
entered some constant disposers	i.	Do not grip the tube or squeeze it.
geofficers and a screen with	j.	Close inker door.
SPECIAL TONS ASSESSMENTS	k.	Switch off machine by depressing witch.
makejepo, mi aalime dadee tana	1.	Start machine by switching on switch
Total and a "Total	m.	Apply ink by moving ink lever , fully back- wards and forwards with a slow, steady action. When ink is evenly distributed an even, thin film of ink will be visible, giving a slight sheen to the surface of the ink screen and then,

M IV/1-5/cr-13

Million selection of the Control of	n.	Turn ink selector to full width inking position—this is indicated by full blue line appearing on top of ink selector knob
C. FI	ŢŢŢ	IG THE STENCIL
and the second second second second	a.	Ensure fixing bar studs project through stencil heading perforations.
tion and an incidence of	ь.	Turn back, backing sheet, if stencil is creased re-lay it by holding the bottom of stencil
Marketin and Proceedings of the Confession of th	C.	Release proofing knob.
Manual Control of the	d.	Turn handle anticlockwise to the bottom position and tear off the backing sheet along perforated line.
	Θ.	Check that the copy is uniformly inked, if necessary repeat the operation till the inking is uniform.
Martine Parketing Comments	f.	Turn handle slowly one complete rotation (clockwise)
	9•	Keep right hand steady to maintain continual pressure over full length of backing sheet.
ARTERIOR AND ARTER	h.	Hold bottom edge of backing sheet, raise slightly outward.
***************************************	i.	Turn handle clockwise until stencil fixing bar is at top of machine.
	j.	Turn back backing sheet.
	k.	With typed side of stencil facing inwards, place tongue and top edge of stencil heading beneath fixing bar flap.
water and the same and	1.	Place right hand lightly on backing sheet.
annemantements in	m.	Stop turning when the handle is in its top position.
and a graph was been a sum of	n.	Turn handle to its stop position.
The state of the s	Ο.	Depress proofing knob and
	р.	Turn handle slowly clockwise.
D. PR	EP AI	RING COLLECTING TRAY AND FEEDBOARD
	a.	For quick re-loading raise paper weight to top-position and lay back fence horizontal on feed board.
чийнинализмения эслация	ь.	Adjúst and position side fences.
	C.	Pull back fence of feedboard fully to rear.
enemonacionican a riporta	d.	Slide back fence towards paper to touch it and lower paper weight.

ACCORDANG UNITED THE CASE	Raise-back and side guides of collecting tray and move them fully outwards.
more constitution of a	Place paper on feedboard fully forward never place more paper on feedboard than will fit easily under paper height stop.
nus automores 9.	Fan out paper and square it up to the original state
E. SETTING	FEED UNIT:
erre-resonan asuara	For light weight paper adjust feed pressure lever to bottom of slot '-'
b.	For normal use set it at top of slot '+'.
C.	Check position of feed pressure lever.
F. PRINTING	FIRST COPY:
a .	Adjust side margin by moving paper stack across feedboard using the scale as a guide.
provinción de rolesia.	To set the collecting tray lay the edge of printed copy against front guide.
C.	Position the back guide to touch the top end of copy.
d.	Move side guides to touch the sides of printed copy and lock.
P -	Raise front guide wings.
resource conta	Raise feed lever whilst completing clockwise turn of handle.
$g_{ullet}$	Depress the feed lever and
ъ-	Examine the correct position and the impression.
i.	Raise feed board by turning feed board raising knob until paper stack contacts paper height stop. The raising knob is automatically disengaged them.
management j.	Adjust prin <b>t</b> height up or down by using print height adjuster <b>knob.</b>
BIOT 1-4 -4-0780200 K •	Slowly turn handle clockwise <b>as</b> soon as feed mechanism begins to operate.
1.	The duplicated copy which is printed in the meantime during this process is collected in the tray.
G. SETTING	THE COUNTER:
• B	Turn unit setter anti-clockwise to units required (twenty five)
	Set hundred setter anti-clockwise to hundreds required (one thousand) and
M IV/1-5/CT-15	

Н.	PRINTING	COPIES:
	a .	Start machine by raising switch.
	b.	Depress feed lever to commence printing.
	sortunes resum a	Select speed of machine - raise speed switch for fast speed and lower for slow speed.
I .	TO CLOSE	THE MACHINE:
	a acceptance of the second	Turn handle clockwise and remove stencil from the machine.
	b.	Turn handle to bottom position and fold inwards.
	C.	Close up feedboard and collecting tray.
	d.	Fold back and side guide of collecting tray inwards.
	e.	Replace the cover.
	f.	Release stencil heading from studs.
	9.	Lay back fence backward, horizontal on to feedboard.
	h.	Lift up stencil fixing bar flap.
	i.	Depress the feedboard raising knob.
	j.	Remove paper slide back fence fully forward below feed unit.
	k.	Turn handle clockwise until stencil fixing bar is at top of machine.
	1.	Detatch flap.
		Lower paper weight.
J.	RE-RUNNIN	G OF USED STENCILS:
	₫.	Turn handle little at a time and stretch out any creases with fingures of left hand.
	b.	Lay it evenly on ink screen over its entire length.
	изовелокузявания С •	Turn handle until stencil fixing bar is in line with feed mechanism.
	d.	Remove any creases by lifting bottom of stencil with right hand and relaying stencil slowly on ink screen.
	e.	Ink machine and attach stencil as discussed earlier.
	f.	Grip bottom of stencil and hold it upright and then.

	µmdule IV	Duplicating Processes
1,2,3	ck list given under are ho against each step in th	ot in a sequence. Number
PROCEDU		
a,	Set the speed. (If the deare very close set the state are not so close	stails in the original speed to 300 rpm. Where the usc 600 rpm).
p;	Fold the top edge of the edge in the slit of the d	stencil and insert the top drum opening.
	Open the safety flap/guard density and sensitivity, and tone of the original.	depending on the density
d.	Romove the stencil faster hand drum.	ning strip from the left
₽		elong with the stencil and the stencil in the opening l in position by means of
f.	Move the right hand side listen for the CLICK.	stop to position and lock-
9.		e towards laft and locate it aft hand side limit of the
"ĥ.	Switch on the electronic	eye by depressing white butter
i •		cate the beam so that the light fall 3 mm beyond the actual original.
j.	Set density and sensitiv	ity based on the originals.
k.	Connect the power supply	and switch on the mains.
1.	Lift open the safety guar (If it is worn out replace	ed and chock the stylus tip. se with a new one)
m.	Remove the dust cover.	
		tho transparent carrier on mand clamp it. (Originals idelines provided on the

A -	0 •	After the completion of scanning the drum will stop automatically. Time for scanning at 300 rpm is a little over 4 minutes and the 600 rpm is a little over 2 minutes.
minute and additional payors	p •	Close the machine with cover.
-	q̈́	Swing the cover to position
F •		Remove the stencil and original and check the stencil, for the effect of impression equitch off disconnect power plug.
	3 .	Switch on the green button for scanning.
	t.	Switch off the electronic eye, by pressing the white button.

M IV/1-5/CT-18

	Mc	odule IV Photocopying
	,	مين المستحمة معلوم المستحمة ال
C <sub>1/38</sub>		Operating Lennox 200 copier.
		list given under are not in a sequence. Number against each step in the correct sequence.
PROCED	UR E	
	a,	Rest both sheets against left hand guide edge and move forward so that original enters in lower slot and copy enters upper slot.
WASSEL CARRESTABLE STREET CO.	b.	With the original facing up, place coated side of the copy paper on top. Coated side is much whiter than the "necated side and can be easily disting ished.
	C.	Open the front door by turning the knob to horizontal position.
	d.	With plate in position, push back door to close and turn the knobs to back.
Janforzanscheigen der bische Produkterstand	Θ.	Then align the original and copy paper along left and top edges.
	f.	Start the machine.
be writing or desiring	9•	Position the feed plate taking care that notch in centre of the plate engages in the guide pin of front door assembly.
	h.	Switch off the machine.
	i.	Pick up the original from the bottom and the copy from the top.
WATER AND	j.	Release the grip on shoets, immediately when these are caught in the rollers.

1 m as an as	AUDIO	VISUAL E	DUCATION	a aaa aa aa aa wa `aa ` } }
! !	 oll No:			KEY ;
Tr	ade :	مان جديد المنطق 123 مانية 123 مانية 123 مانية 123 مانية الاقتاد العالم الاقتاد العالم الاقتاد الاقتاد العالم ا		Init 1-5
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	a <b>b</b> )	a b	a b	a i
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g made during after some after note	9	10 .	11	12
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Roll No: Module IV

KEY TO CRITERION TEST

'Unit 1**-5** 

Trade:

Section B

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- 17. 1. Spirit duplicating
  - 2. Stencil duplicating
  - 3. Photo copying
  - 4. Printing
- 18. 1. Hand written
  - 2. Type written
  - 3. Scanning
- 19. 1. organise materials
  - 2. Use clean and good typewriter
  - 3. Develop good layout
  - 4. Leave enough margin
  - 5. Do proof reading
- 20. 1. Write to the level of trainees
  - 2. Be correct and sonsistant, be simple
  - 3. Emphasise by heading and separation
- 21. 1. Electrostatic (Xerox)
  - 2. Diazo
  - 3. Infra aid
  - 4. Dye transfer
- 22. Leave enough margins—top, bottom and sides—so that the copy is not cropped up during duplication.
- 23. To emphasise, and separate headings and information.

- 24. To separate ideas, items
- 25. a. Cheaper
  - b. Drawing can be made easily by hand
  - c. Multi colouring can be done easily
  - d. Writing or typewriting is easier
- 26. a. Drum carries master copy
  - b. Feed tray carries paper for duplication
  - c. Felt pad moisturing the duplicating paper (copy)
  - d. Fluid tank container for spirit
  - e. Counter to show number of copies made
- 27. 2 feed tray 13 Impression roller
  - 1 receiving tray 10 Master
  - 4 Fluid tank 9 handle
  - 3 drum 5 Master holding strip
  - 11 copy paper 7 counter
  - 12 duplicated paper 14 felt pad
- 28. a. First backing sheet
  - b. Second carbon facing glazed surface of master
  - c. Master with glazed surface facing carbon
- 29. a. Handle spirit with care, being inflammable.
  - b. Avoid undue long exposure to spirit
  - c. Do not smoke within vicinity
  - d. Keep in a proper ventilated room
- 30. a. Stencil
  - b. Ink for duplicating
  - c. Duplicating paper
  - d. Duplicator
- 31. The ink is made to pass through perforation made on the stencil (by writing or typing or scanning) to leave impressions on the duplicating paper.

32.	4	feed board raising knob	8 feeding unit
	11	print height adjuster	1 feed board
	_3	-ha <b>n</b> dle	10 back guide
	2	collecting tray	9 side guide
	5	ink selector	7 hand feed lever
	6	counter	12 stencil drum

- 33. A clear acetate sheet is placed between blank stencil and backing sheet while scanning as usual. You make the clear acetate, the transparency.
- 34. a. 300, 600
  - b. The lower speed is used when your material has close lines and you desire better quality.
  - c. When you have sketches and photographs you use lower speed.

For typewritten matter or when there is no difference in tones, you can use higher speed.

•	MODIO VISUAL	. EDUCATION	KEY	· · · · ·
mage with their man death from	Module IV	Duplicating F	rocesses	MAR, 696, 49
( _71/3)	Oper Y THE DUPLICATOR	ating a Stenci	ll duplicator.	, i
4 ************************************	Adjust pressure of import Adjust guides if any Check for moistness of Insert paper in the factate and check for put Clean duplicator if received the cover	felt, wet if eed tray roper flow of equired	necessary fluid	
II. <u>ÂTI</u>	ACH MASTER:			
1 6 2	the side with carbon insert the top edge of (about 5 mm)  Turn handle to 7 '0' (about 5 mm)  return the clamping to rotate handle counter then rotate handle closs N COPIES:	the master in Clock position ormal locked clock wise	nto the opening	9
6 4 1 5	run copies, feed paper spirit, paper and othe check again spirit flo run test sheet set counter for copy	er adjustments ow and adjust numbering ength	•	1e2jà
7 6 10	VE MACHINE:  remove and store spiring  set copy control knob  replace dust cover  rotate clock wise again	and pressure		o zero

8	remove and store unused paper
1	stop handle to 7 '0' clock position
2	rotate counter clockwise, open clamp
5	file master after stapling to it a specimen
3	remove master without touching the carbon impression
9	clean the machine and

M IV/C 1 /35/KCT-2

KEY

	[V	lodu	ule IV	Duplicating Processes
The Num	follo	owir 2,2		under is not in a sequence. Eap in the correct sequence,
A.	READY	THE	MACHINE	
	3	a.	Connect power plug t	co electric socket.
	4	b.		er is raised and give handle ise turn to ensure feed erating.
	1	c.	Remove cover.	
	2	d.	Lower feed board and	collecting tray.
В.	INKING	<u>.</u>		
	3	a.	Hold ink tube by its	s shoulder and remove its cap.
	6	b.	Insert tube nozzle i	into tube holder
	4	С.	Place crimpled end	in 'V' of tube support and
	1	d.	Open inker door	
	8	e.	Push tube locking la roller is at extreme	ever fully downwards until e end of slot.
	7	f.	Push nozzle fully in	nto holder.
	2	9.	Raise tube locking I	lever.
	5	h.	Press gently until molder.	nozzle is in level with tube .
	10	i.	Do not grip the tube	e or squeeze it.
	9	j.	Close inker door.	•
	14	k.	Switch off machine	oy depressing switch.
	12	l.	Start machine by swi	itching on switch
	13		and forwards with a ink is evenly distrink will be visible surface of the ink	ink lever, fully backwards slow, steady action. When butcd an even, thin film of , giving a slight sheen to the screen and then,
C	n IV/íç	: 1/	'36/KCI-1	-

_11_	n.	Turn ink selector to full width inking position-this is indicated by full blue line appearing on top of ink selector knob
C. FII	TIN	G THE STENCIL
3	а.	Ensure fixing bar studs project through stencil heading perforations:
88	b.	Turn back, backing sheet, if stencil is creased re-lay it by holding the bottom of stencil
11	C÷	Release proofing knob.
1	d.	Turn handle anticlockwise to the bottom position and tear off the backing sheet along perforated line.
14	ۥ	Check that the copy is uniformly inked, if necessary repeat the operation till the inking is uniform.
10	f.	Turn handle slowly one complete rotation (clockwise)
6	9•	Keep right hand steady to maintain continual pressure over full length of backing sheet.
15	h.	Hold bottom edge of backing sheet, raise slightly outward.
16	i.	Turn handle clockwise until stencil fixing bar is at top of machine.
13	j.	Turn back backing sheet.
2	k.	With typed side of stencil facing inwards, place tongue and top edge of stencil heading beneath fixing bar flap.
4	1.	Place right hand lightly on backing sheet.
<u> 7</u>	m.	Stop turning when the handle is in its top position.
12	'n.	Turn handle to its stop position.
9		Depress proofing knob and
5	p •	Turn handle slowly clockwise.
D. PRI	<u>EP</u> AI	RING COLLECTING TRAY AND FEEDBOARD
7	a.	For quick re-loading raise paper weight to top-position and lay back fence horizontal on feed board.
5	ь.	Adjust and position side fences.
_2	c.	Pull back fence of feedboard fully to rear.
6	d.	Slide back fence towards paper to touch it and lower paper weight.

M IV/C 1/36/RCT-2

	1 e.	Raise back and side guides of collecting tray and move them fully outwards:
	4 f;	Place paper on feedboard fully forward never place more paper on feedboard than will fit easily under paper height stop.
	3 9.	Fan out paper and square it up to the original state.
Ε,	SETTING	FEED UNIT
	3 a.	For light weight paper adjust feed pressure lever to bottom of slot '-'
	2 b.	For normal use set it at top of slot '+'
	1 c,	Check position of feed pressure lever.
F.	PRINTING	FIRST COPY
	8 a.	Adjust side margin by moving paper stack across feedboard using the scale as a guide.
	9 b.	To set the collecting tray lay the edge of printed copy against front guide.
	_11 c.	Position the back guide to touch the top end of copy.
	<u>10</u> d.	Move side guides to touch the sides of printed copy and lock.
	12 0.	Raise front guide wings.
	4 F	Ráise feed lever whilst completing clockwise turn of handle.
	29.	Depress the feed lever and
	<u>6</u> h.	Examine the correct position and the impression.
	1 i	Raise feed board by turning feed board raising knob until paper stack contacts paper height stop. The raising knob is automatically diseengaged
	7 j.	Adjust prin <b>t</b> height up or down by using print height adjuster knob.
	3 k.	Slowly turn handle clockwise 🕬 soon as feed mechanism begins to operate.
	5 1.	The duplicated copy which is printed in the meantime during this processes is collected in the tr <b>ey</b>
G.	SETTING	THE COUNTER
	2 a.	Turn unit setter anti—clockwise to units required (twenty five).
	1 b.	Set hundred setter anti-clockwise to hundreds required (one thousand) and
	00 = 11/2	1 /24 /V/TT 2
	M IV/C	L/36/KCT-3

		· ·
н.	PRINTING	COPIES
	2 a.	Start machine by raising switch:
,	3 b	Depress feed lever to commence printing.
	1 C:	Select speed of machine - raise speed switch for fast speed and lower for slow speed:
I.	TO CLOSE	THE MACHINE
	. 9 a.	Turn handle clockwise and remove stencil from the machine.
•	10 b.	Turn handle to bottom position and fold inwards.
	12 c.	Close up feedboard and collecting tray.
	11 d.	Fold back and side guides of collecting tray inwards
	<u>13</u> e.	Replace the cover.
	7 f.	Release stencil heading from studs:
	4 9.	Lay back fence backward; horizontal on to feedboard.
	6 h.	Lift up stencil fixing bar flap.
	1 i.	Depress the feedboard raising knob.
	2 j.	Remove paper slide back fence fully forward bwlow feed unit.
	5 k.	Turn handle clockwise until stencil fixing bar is at top of machine.
	8 1.	Detach flap.
	3 m.	Lower paper weight.
J.	RE-RUNNIN	NG OF USED STENCILS
	6 a.	Turn handle little at a time and stretch out any creases with fingures of left hand.
	4 b.	Lay it evenly on ink screen over its entire length.
	2 C.	Turn handle until stencil fixing bar is in line with feed machanism.
	5 _ d.	Remove any creases by lifting bottom of stancil with right hand and relaying stancil slowly on ink screen

1 e. Ink machine and attach stencil as discussed earlier.

3 f. Grip bottom of stencil and hold it upright and then.

M IV/C 1/36/KCT-4

				•
		·		KEY .
	Mo	odule IV	Duplicating Process	ses
,C <sub>1/37</sub>	,	¿Electronic Stencil Sc	anning.	
1,2,3	• • •	list given under are against each step in		
PROCE	OUR		•	
13	a.	Set the speed. (If the arc very close set the details are not so clo	speed to 300,rpm.	
11	b.	Fold the top edge of t edge in the slit of th		ert tha top
14	C.	Open the safety flap/g sity and sensitivity, tone of the originals.	depending on the de	
10	d.	Remove the stencil fas drum.	tening strip from t	he left hand
_12_	0.	Rotate the drum by han insert the other end o and hold with the sten the fastening strip.	f the stencil in th	o opening
<u>B</u>	f.	Move the right hand si listen for the CLICK.	de <u>stop</u> to position	and lock—
9	9•	Shift the electronic e 3 mm beyond the actual original.		
6	h.	Switch on the clactron button.	ic eye by depressin	g white
7	i.	Move the carriage and light from the electro actual right side limi	nic eye fall 3 mm b	
5	j.	Set density and sensit	ivity based on the	originals.
2	k.	Connect the power supp	ly and switch on th	e main <b>s.</b>
4	1.	Lift open the safety (If it is worn out rep	guard and check the lace with a new one	stylus tip.

n. Place the original under the transparent carrier on the copy side of the drum and clamp it.

(Originals should be with in the guidelines provided

M IV/ C 1/37/KCT-1

1 m. Remove the dust cover.

on the drum).

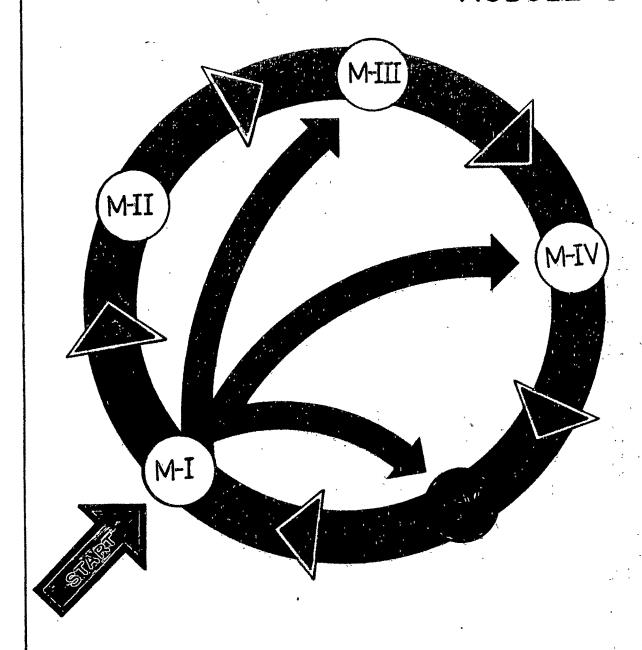
- o. After the completion of scanning the drum will stop auto-matically. Time for scanning at 300 rpm is a little over 4 minutes and the 600 rpm is a little over 2 minutes.
- 20 p. Close the machine with cover.
- 15 q. Swing the cover to position.
- 19 r. Remove the stencil and original and check the stencil, for the effect of impression switch off disconnect the power plug.
- 16 s. Switch on the green button for scanning.
- 18 t. Switch off the electronic eye, by pressing the white button.

M IV/ c 1/37/KCT-2

				KEY
and with other use and the	Μc	odule IV	Photocopying	ug ten pilit graner san ninan dalijah grane YMM (D-M
The Ch	ock	Operating Lennox 200 list given under are nagainst each step in th	ot in a seque <b>nc</b> e.	
PROCED	UR (		٠	
7 1000000000000000000000000000000000000		Rest both shects agains and move forward so tha slot and copy enters up	t original enters i	
5	b.	With original facing up copy paper on top. Coat the uncoated side and c	ed side is much whi	ter than
	C.	Open the front deer by position.	turning the knob to	horizontal
3	d.	With plate in position, turn the knobs to lock.	push back door to	closo end
6	€.	Then align the original and top edges.	and copy paper alo	ing left
4	f.	Start the machine.		
2	9.	Position the feed plate centre of the plate eng door assembly.		
10	h.	Switch off the machine.		
9	i.	Pick up the original fr from the top.	om the bottom and t	:Ке сору
8	j.	Release the grip on she are caught in the rolle		ien thesa

M IV/ C I /38/KCT-1

# AUDIO VISUAL EDUCATION MODULE-V



KRISHNAN.

Module V AUDIO AIDS Time: 20 mts.

Units 1-6 CRITERION TEST Section A

1. What do you consider should be the speed of speech, so that listening is effective.

- a. 30 50 words per minute
- b. 300 350 words per minute
- c. 200 250 words per minute
- d. 100 175 words per minute
- 2. In Dale's cone of experience Verbal Communication
  - is placed in the
  - a. Middle of the cone
  - b. Top of the cone
  - c. Bottom of the cone
  - d. Just above the bottom of the cone
- 3. Hearing capacity of human ear to respond fall in the range of
  - a. 10-30 cycles per second
  - b. 1000-3000 cycles per second
  - c. 500-800 cycles per second
  - d. 30-1500 cycles per second
- 4. A monaural tape recorder will have
  - a. Two channels and one speaker
  - b. Two channels and two speakers
  - c. One channel and two speaker
  - d. Three channels and two speakers

- 5. The function of tone control is to
  - a. control the volume
  - b. balance the volume control in a stereo system.
  - c. eliminate low frequencies.
  - d. eliminate high frequencies.
- 6. If you are asked to position the speakers of an audio system, which one of the following will be your choice.
  - a. knee level
  - b. ear level
  - c. below the ear level
  - d. 300 mm above the ear level.
- 7. Tone control is operated during
  - a. recording only
  - b. playing only
  - c. playing and recording.
  - d. stereophonic recording only.
- 8. You are required to record a conversation between two individuals sitting opposite, which one of the following microphoneswill be your choice.
  - a. Bi-directional microphone
  - b. Uni-directional microphone
  - c. One lavalier microphone.
  - d. One lapel microphone.
- 9. A group of persons are sitting around and discussing. If you want to audio record this group actively, what will be your microphone.
  - a. Bi-directional microphone
  - b. Lapel microphone
  - c. Omni directional microphone.
  - d. Uni-directional microphone.
- 10. An audio tape which cannot be used for recording both mono and stereo is
  - a. Dual track
  - b. Full track
  - c. Quarter track
  - d. Four track.

- 11. Which one of the following is an essential requirement when you use an audio aid ?
  - a. You should be able to provide information to your student to act on hearing.
  - b. You should have the visual in front of you.
  - c. You must have the projected visual along with the audio.
  - d. You must provide more than one source of audio to listen at the same time.
- 12. Cassette recorders are available at present only for a fixed speed. Which one of the following speeds is the speed of a cassette tape recorder?
  - a. 4.75 cm/sec.
  - b. 9.30 cm/sec.
  - c. 19.00 cm/sec.
  - d. 70 i.p.s.
- 13. The pest reason for deciding whether you require a particular length of tape for use in your tape recorder is:
  - a. Playing time
  - b, life of tape
  - c. length of tape
  - d. spool diameter of tape recorder.
- 14. Which one of the following tape of 7" diameter will have the thin base and hence not very desirable for selection for long and continued use ?
  - a. 3600 ft.
  - b. 2400 ft.
  - c. 1800 ft.
  - d. 1200 ft.
- 15. Which one of the following recording systems has better quality of sound reproduction?
  - a. 4.75 cm/sec.
  - b. 9.5 cm/sec.
  - c. 19.00 cm/sec.
  - d. 1.90 cm/sec.
- 16. Accidental tape erasure is prevented by providing
  - a. one control for erasure
  - b. two controls for erasure-play and fast forward being not passed.
  - c. providing strong magnets near the magnetic head.
  - d. not pressing record and play mode buttons together.

- 17. When you are not using a bulk tape erasm, for erasing dual track tape recorders you must:
  - a. Run the tape from one end to another in one direction.
  - b. Run the tape from one end to another in both directions
  - c. Use the record and play button and re-record a programme in one direction,
  - d. Play the record in a stereo record player in one direction.
- 18. The best way to splice a tape is to:
  - a. Cut them, so that the cut being perpendicular to the length of the tape, and apply gum after overlapping.
  - b. Cut both ends perpendicular to the length of the tape, and apply cellophane tape and press it down, smooth side in one direction.
  - c. Cut the ends, by lapping them at 45 degrees angle by a scissor diagonally and then overlap the tapes, and place short length of splicing tape over the joint and press it down.
  - d. Cut both ends of the tape by lapping them at 45 degrees by a scissor diagonally, then butt the ends together smoothly and place a short length of splicing tape over the joint, and press it down.
- 19. When duplicating tapes, if you want to use the tone adjustments.
  - a. Make this on the machine that is playing, not on the machine recording.
  - b. Make this on the machine that is recording, not on the machine playing.
  - c. Make this on both the playing and recording machines for better effect.
  - d. None of the above.

- 20. You are given two tape recorders, and is asked to transfer recordings from one to another. The best way of transfer recording from one machine to another machine is to:
  - a. Use the condenser microphone and play the other tape recorder.
  - b. Use a separate microphone and play the other tape recorder.
  - c. Use patch cords and connect the output of playing tape recorder to input of the other recorder.
  - d. Use patch cords and connect the input of the playing tape recorder to the output of the recording machine.
- 21. Which one of the following is Not a common speed of commercial record player ?
  - a. 33 1/3 rpm
  - b. 45 rpm
  - c. 78 rpm
  - d. 16 2/3 rpm
- 22. Casette tape C 60 played with constant tape speed of 4 75 cm/sec. tapes playing time for one side.
  - a. 60 minutes
  - b. 30 minutes
  - c. 120 minutes
  - d. None of the above.
- 23. For monophonic reproduction we require a minimum of speakers:
  - a. Two
  - b. One
  - c. Four
  - d. Three
- 24. For making stereophonic tape recording we require essentially a minimum of \_\_\_\_\_\_\_to record.
  - a. One single track
  - b. Two tracks
  - c. Four tracks
  - d. Six tracks

- 25. When you select a stereo system, in addition to its use as a normal stereo recorder, can you from what you have learned on the potentialities of the system say which one of the following is not a possible additional use of stereo system in the teaching learning process.
  - a. Instructional sequence can be recorded on one channel and confirmation of answers in the other channel.
  - b. Stereo on second channel can be used later on for adding echo effects, multiple recordings like machine sound, cutting sound, water or oil dripping sound, or other similar relevant sound effects separately without disturbing the main recording on the first channel.
  - c. Question-answer sessions from two sources can be recorded easily and without compilation with two separate voices on two channels on two or more different occassions.
  - d. Simultaneously recording of the same voice on both channels so that you can hear the voice from both speakers kept in the same class clearly.

AUDIO VISUAL EDUCATION

			0100112			RESPONSE	SHEET
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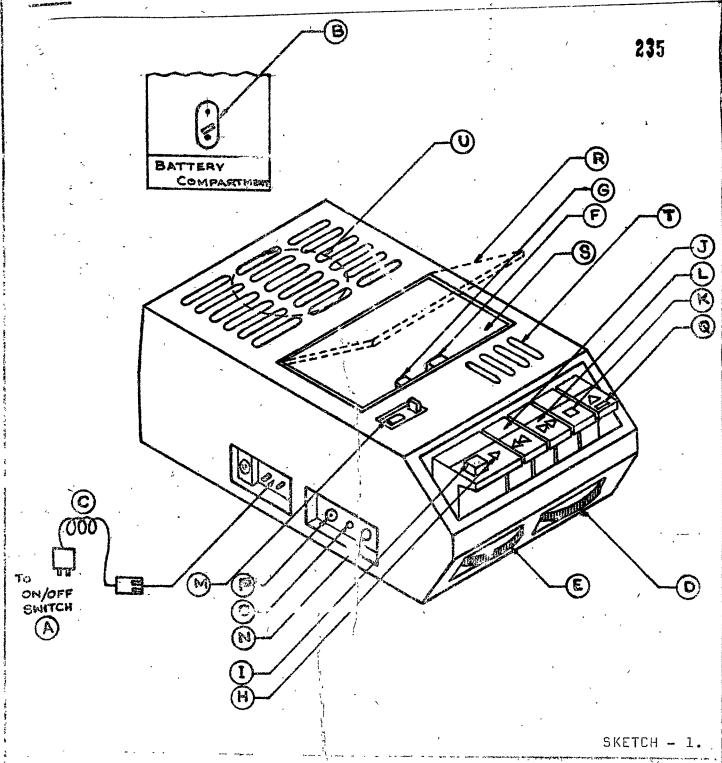
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	Module V	Audio Aids	Time: 40 mts.
		CRITERION TEST	Saction B.
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1.	Name three kinds of used for instructio		that can be
2.	During teaching you are lacking in list the methods which their listening ski	ening <mark>c</mark> apabilities you think <mark>c</mark> an help	. Suggest
3.	There are several w materials for instr procedure known as five steps.	uction, but there	is a familiar
4.	Name the five factor of sound production		es the quality
5.	The sketch I given of common type of c parts by placing th part against the na	asette player, Ide e correct letter r	ntify the
	Play	Mike input	<b>F</b> astforward
	Record	Remote	Rewind
	Stop	DC inlet	Volume
	Eject	AC inlet	Tone
	Condenser mike	Casette′ compartment	Speak <b>er</b>

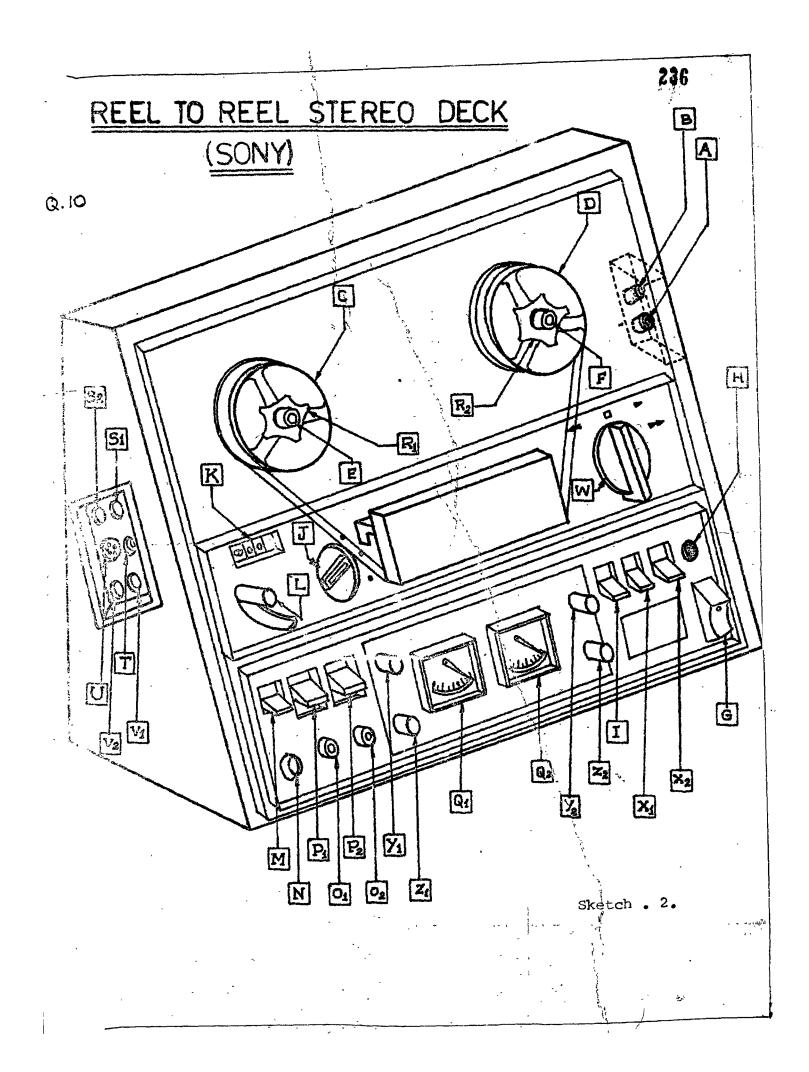
- 6. Name the four types of microphones based on their technical classifications.
- 7. You are to replace a microphone for one of your tape recorders and it has to be of good quality and correct matching. Name the characteristics, you will look for while buying the replacement.

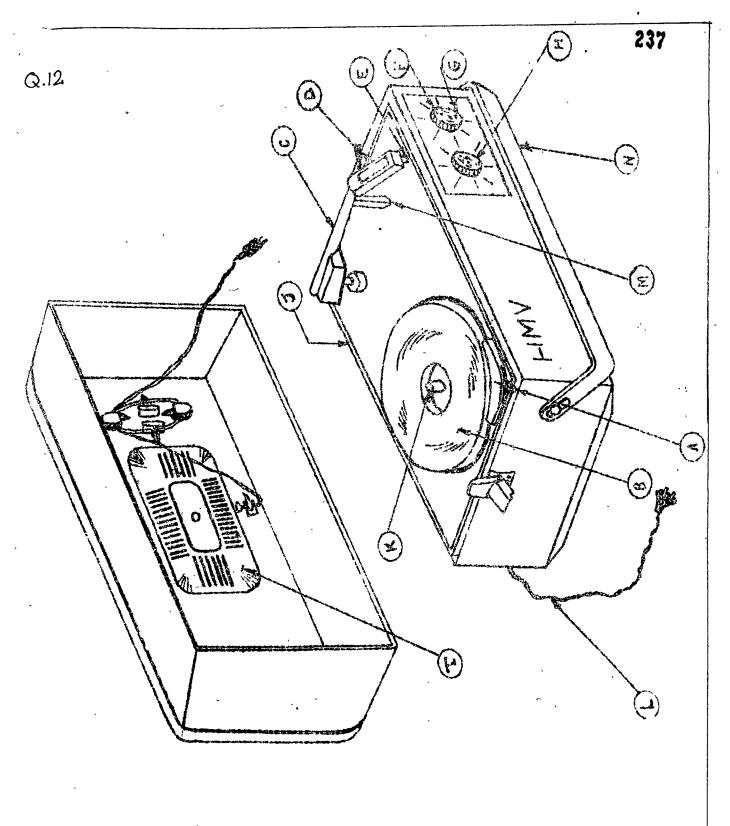
- 8. It is said that flourescent lights within the vicinity of tape recording should be avoided, state the reason.
- 9. You are to produce a good quality audio recording and do not have an accoustically treated room. Suggest an alternate simple and economical way to improve the room condition for recording purposes.
- 10. The sketch II at the end of Section B is of reel to reel tape recorder with certain parts indicated by letters. In the response shoet are few names of parts. Identify the parts by placing the letter against the corresponding names of parts.
- 11. Name the two audio modes commonly used.
- 12. The sketch III at the end of the Section B is of a record player. Some of its parts are indicated by letters. Identify them by placing the letters against the corresponding name of parts given in the response sheet.
- 13. State the four aspects for identifying records.
- 14. HMV Fiesta, record player, that is available for your practice, is one which is different from other turntables. In what respect does this differ?

  What makes it to act independently, without connecting to any other equipment or radio.
- 15. HMV Fiesta, the record player has only one speaker, and it is a (monophonic, stereophonic, quadraphonic) requiring speakers (two, one, three, four)
- 16. You have seen the Sony turntable, what is the main difference it has compare to Fiesta record player. What is the advantage?
- 17. Why is it necessary to use some of the inexpensive turntables using the radio for playing? What item(s) in the radio is made use of, while playing the record.
- 18. What is the main difference between a tape deck and a tape recorder ?
- 19. State three functions of heads in a tape recorder.

- 20. If you have a three head machine, state one separate function of each head.
- 21. If you have only one head in your machine, which are the two functions that are combined in one head?
- 22. When you have only one head, which of the above function(s) can the machine perform ?
- 23. What is the single major disadvantage of using a permanent magnet as an erase head?
- 24. What is the function of a pause button in a tape recorder ?
- 25. How does operating the pause button differ from a stop button ?







SKETCH - 3.

RESPONSE SHEET

R	oll 1	io:	Module V Unit 1–6
T	rade		Section B.
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10.	*****	Tape counter	Supply reel	
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	PERSONAL TRACE	Instant stop lever	Switch indicator	,
		_ Auxiliary inputs	Microphone input	S
		Record/Playback pin commuter input/	Record levers	
		output	that and the same of the same	_
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Module V

AUDIO AIDS

Section C

CRITERION TEST

Time 60 mts.

Use separate answer sheets for Section A, Section B and Section  $\mathbb{C}_{\bullet}$ 

DO NOT write anything on this question paper. Return the question paper along with your responses. Answer Section C after completing Section A & B.

## C/1. PERFORMANCE CHECK LIST

Performance check list for operating different audio aids are given not in correct sequence and separately under different headings. Under each heading write item number in the sequence of operation Items in each heading may be considered separate and complete.

Note: - Collect separate response sheets provided for each question.

- 1. Operating an audio cassette tape recorder.
- 2. Operating reel-to-reel stereo deck.
- 3. Operating record player.
- 4. Copying from disc to audio tape.

#### C/2. PRACTICALS

- 1. Set up, load, and operate cassette tape recorder.
- 2. Set up, load, and operate a stereo deck.
- 3. Set up, load, and operate a record player.
- 4. Set up a tape deck, amplifier, a stereo record player, speaker, and record sound on audio tape.

ע ניועסטן,	P.C. TAST /	SECTION C
	US C 1/1-4 and C 2/1-4.	
	CHECK LIST FOR PRACTICA	
	el practical exercises.	
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	MODULE V AUDIO AIDS	•	•
	UNIT 1-5 Operating Tape	Recorders,	1
	The state of the s	kar sada ma daga daga	and Same of April
C <sub>1/35</sub>	The following performance check list for by cassette recorder is not in order. You ar appropriate numbers in the space provided in the order in which the operations are t	e required to punder each sub-	place -head
	A. SETTING UP		
	Locate cassette recorder,  Place microphone (if there is a sep  Switch on mike & place speakers in		
	there are separate speakersSwitch ON.		,
	Select power source (Battery/AC)		1
	Connect power cord, if you select A	.C.	
	If battery source is adopted, check	battery level	•
	r	•	
	B. OPERATION		
·	Check recorder for STOP mode. If no Press Cassette in and close shutter.  Press eject button.  Rewind tape.		top(), mode.
	C. RECORDING		
,	Set index counter to 1000.  Record sound for testing.  Set and switch ON mike.  Engage RECORD & PLAY control.  Rewind again.  STOP.  Switch PLAY button.  Listen, adjust volume and tone lever press pause for stopping machine if	,	
	release when you want,  For recording or recording again controls.	• . eùdadê BFAA	: & RECORD

		Record again. Rewind again. STOP.
D.	PLAYE	BACK
		Adjust volume and tone controls.  Press PLAY and listen.  STOP FAST FORWARD for skipping and listen to recording.  Press REWIND for going back to zero position.  Use index counter to locate correctly segments.
E.	PACKI	ING JP
		Switch OFF.  REWIND fully  Remove cassette.  Press EJECT.  Close cassette compartment.  Store accessories.  Remove accessories.

	Module V	Audio Aids Operating Tape Recorders
<sup>C</sup> 1/36	Tape Deck given here under i	or operating Sony reel to reel s not in a sequence. Number in the correct sequence, for A,B,
	2 mikes). Place speaker proper Connect deck to ampl amplifier). Select power source. Check reel rotation Connect power cords Set speed control. Push in rubber caps, Attach supply reel. Attach empty reel. Thread tape through playback.	operly and plug in. (for stereo, ly and connect it (them). ifier (if recorder is not having with PLAY control. to recorder (and amplifier). on reels.
,	Engage tape end to t  Rotate both reels by  B. OPERATING  REWIND TAPE	hand for about 1½ turns
	STOP mode	TOP mode, if not keep it in y pressing the button. ecorder/amplifier.

С.	RECORDING
	Record test sound.
	Adjust volume control.
	Engage FORWARD & RECORD button, for stereo recording.
	Set mike and switch to 'ON' position.
	STOP after recording test sound and rewind.
	PLAYBACK
1	REWIND, if satisfactory recording is done, after pressing STOP mode.
	If unsatisfactory repeat again.
	Complete recording for a minute and stop.
	REWIND.
, D.	PLYB.iCK
	Uso FORWARD position.
-	Listen.
	Adjust volume & tone control.
	Ese fast forward to skip.
	Use rewind to go back to particular segment.
	Use index counter to locate programme.
E.	PACKING
	Switch off
	REWIND
	Remove microphone
	Disconnect amplifier cords and accessories.
	Keep recorder in priginal position.
	Remove reels, and tape
	Remove all other cords, accessories and store.
	And the state of t

		YUDIO VI	SUAL EDUCATION	248
•	Module V		Nudio Nids Record Players	
C1/37	hereunder is not	in a seque	or operating record plance. Number 1,2,3 e, for A,B and C separ	against each
	Turn on Turn on Place sp	amplifier. motor eaker, if t speaker cor	gently on a truly horiz here is no built-in-spo ds into the receptacle.	eaker.
	Select a Place pi Start to Place re Select p	ckup arm starntable. ccord proper stylusick up arm and lift the one minute volume.	ylus on record gently.  Ply side I on the record.  Is for the record.  Weight if provided.  Pickup arm	
	C. PUTTING TAWAY  Lock arm  Amplific  Remove r  Release  Lock lic  Store at  Motor of  Place in	er off ccord turntable d ll cords.	oosition.	

	Module V	Audio Aids Record Players	production of the second
<sup>C</sup> 1/4	This check list for copying (stereo) given hereunder is against each step in D and E separately.		Number 1,2,3
	Place record player appropriately to ta  If there are no bui  connect appropriate  Connect power cords  Select A/C power so  Push rubber caps or  Engage tape end in  Attach supply wheel  Attach empty reel t  Select speed of tap  Select 33 rpm record  Check reel rotation	ource in all the equip both spindles. the slot of take-up r to the other spindle to wheel that turns. he deck (4.8 cm/sec.). I player to 33 rpm.	speaker and ment.
	B. OPERATING  Check tape deck for stop mode.  Rewind tape to star tape end does not 1  Switch on power to Set counter to 000.	tape deck/amplifier.  table, side 1 facing stylus (33 rpm).	ep it in that

В.	OPERATION (CONTD)
	Adjust pickup arm weight if provided.  Place stylus gently on record edge in the run-in-groove.  Lnlock and lift pickup arm.
С.	RECORDING
	Engage record and play (forward) levers for stereo recording (Press both L & R buttons).
	Play record for 15 seconds.
	Adjust volume control. The needle should not show red mark on tape deck.
	Check sound recorded. If unsatisfactory repeat 1 to 5. STOP tape and record.
	Stop record, tape, and rewind tape.
	If satisfactory, rewind again, bring to stop.
	Engage record & play of tape deck.
	Play record for 1 minute.
	Stop tape and record.
	Rewind tape to 000.
D.	PLAYBACK
	Play fully 1 minute.
	Bring tage deck control to Play/Forward.
	Adjust volume control.
	Lift pickup arm and lock in position.
Ε.	<u> </u>
	Switch off tape deck.
	Rewind tape.
	Remove record and store.
	Release turn, table.
	Remove reels, tape and all connecting cords and store.
	Remove all accessories and store.
	lack lide



Roll No. Trade: Date:	- ap an 111 - 11 ap ap ap ap		, agas agas pape agas agas page signi		Uni Sec	ùle V t 1–6 tion−A
1 a b c d 8 a b c d 15 a b c d 22 a b c d	2 a (b) c d 9 a b (c) d 16 a b c (d) 23 a (b) c d	3 a b c d 10 a b c d 17 a b c d 24 a b c d	4 а ь © d 11 @ ь с d 18 а ь с d 25 а ь с d	5 a b c d 12 a b c d 19 a b c d	6 а (ф) с d 13 а b с (ф) 20 а b (©) d	7 a (b) c d 14 (a) b c d 21 a b c d

Roll No: Module V
Unit 1-6
Trade Section B

- 1. 1. Disc Recording
  - 2. Cassette tape recording
  - 3. Reel-to-reel recording
  - 4. Radio
- 2. 1. Direct and maintain attention
  - 2. Stress the importance of message the first time
  - 3. Use context while explaining.
  - 4. Distinguish between, relevant and irrelevant information.
  - 5. Find and recall main ideas and details.
- 3. 1. Prepare yourselves.
  - 2. Develop student-readiness.
  - 3. Listen to the programme.
  - 4. Follow up the programme.
  - 5. Listen carefully.
- 4. 1. Quality of original sound.
  - 2. Condition of recording and playback.
  - Capability of medium to record full frequency range.
  - 4. Capability of the system to reproduce all frequencies.
  - 5. Distortion free recording and playback.
  - 6. Ability to handle the equipments.

J .	Пьтах	N Mike input	L fastforward
	IRecord	O Remote	<u>J Rewind</u>
	K Ston	B Voltage	D Volume
	Q Eject	selector	F Tone
	T Condensér mike	A A/C inlet	U Speaker
		S Cassette	n sheaker
	MGS	compartmen	t
6.	1. Dynamic		
	2. Magnetic	•	
	3. Ceramic		
	4. Condenser type		
7.	1. Free from distort	i o/n	ı
	2. Matching impedance		:
	3. Matching both out	put or mike and	input of recorder
8.	Causes hum.		
9.	1. Carpeting		
	2. Draperis	,	
1n.	K Tape counter	r vlanus j	eel
,	J Speed selector		
	_M_ Noice suppresso		
	L Instant stop le		
	S <sub>1</sub> S <sub>2</sub> Auxiliary input	`	
	U Record/Playback	x 1 2 Record 1	evers
	pin commuter input/output		
	A Voltage selecto	or <b>q</b> 1 Q2 <sub>Level me</sub>	ters
	D Take up reel		
11	1. <u>Monophonic</u>		
1 1 0	2. Stereonhonic		,

12.	Α	Speed Selector	Н	Volume	
	В	Turn table	G	Tone	•
	**************************************	Pick up arm	3	Speaker	output
	E	Stylus	T	Speaker	-
	D	Stylus selector	F	Switch	

- 13. a. Speed
  - b. Diameter
  - c. Type of stylus mode of playing
- 14. a. It has a built in amplifier
  - b. The amplifier it does not require an amplifier system.
- 15. 1. Monophone
  - 2. One speaker
- 16. It has stroboscope for speed setting.
- 17. 1. It has no amplifier!
  - 2. Speaker and amplifier.
- 18. Deck is without amplifier and speakers.

19. Record.

Erase.

Reproduce.

20. Record.

Erase.

Reproduce.

- 21. Record and reproduce.
- 22. Reproduction.
- 23. It will produce hum.

  The magnet losses the strength.
- 24. The pause button when depressed steps recording or playback instantaneously when it is held down and when released allows the machine to function without any change of other settings.
- 25. As soon as pause button is released, recording or playback continues, without changing other settings, while a stop button when released, all other settings-record & playback buttons are to be readjusted.

	AUDIO VISUAL EDUCATION	KEY
Module V -⇒` Unit 1-8	Audio Aids Operating Tape A	Recorders
Performance Check	k list: Operating Audio Cassett	ce Tape Recorder
A. SETTING UP		
2 Place mid 3 Switch or there are 6 Switch Of 4 Select po 5 Connect p	assette recorder crophone (if there is a separat n mike and place speakers in po e soparate speakers. N. ower source (Battery/AC) power cord, if you select AC. ry source is adopted, check bat	osition if
B. <u>OPERATION</u>	•	
<u>1</u> Check red stop mode	corder for STOP MODE. If not ke	эвр it <b>i</b> n
3 Press cas	ssette in and close shutter.	
2 Press ejo 4 Rewind to	ect button. ape.	
C. RECORDING.		
4 Record so 3 Set and s 2 Engage Ri 6 REWIND as 5 STOP.	x counter to 000.  ound for testing.  switch'on' mike.  ECORD & PLAY control.  gain.  LAY button.	· ,

8 Listen, adjust volume and tone to levels.

M V,/C'1 /1/KCT-1

press pause, for stopping machine if necessary and release when you want. 10 For re-recording or recording again, engage PLAY & RECORD controls Record again 12 REWIND again 13 9TOP Di PLAYBACK . 2 Adjust volume and tone control. 1 Press play and listen: 3,4 STOP FAST FORWARD for skipping and listen to recording. 6 Press REWIND for going back to zero position. 5 Use index counter to locate correctly segments. E. PACKING UP 2 Switch off, 1 REWIND fully. 4 Remove cassetts 3 Press Eject

5 Close cassette compartment,

7 Store accessories,
6 Remove accessories;

	حب میں علی میں میں میں ایس ایس ایس ایس ایس ایس است. 	L L L L L KEY	<u> </u>
1	Module V	hudio hids	
	Unit 1-6	Operating Tape Recorder	s ·
$c_{1/2}$	Performance Chock list: Ope	erating Sony reel to reel	Tape Deci
(3)	A. SETTING UP		
	1 Locate tape recorder	Y•	
•	<pre>2 Place microphones pr 2 mikes)</pre>	operly and plug in (for s	stereo,
	3 Place speaker proper	ly and connect, it (them	).
	Connect deck to amp: 5 amplifier).	lifier (if recorder is not	: having
	Select power source	,	*
	8 Check reel rotation	with PLAY control.	
	6 Connect power cords	to recorder (and amplific	er)
	7 Set speed control.		
	14 Push in rubber caps	on reels.	
	10 Attach supply reel	•	
	9 Attach empty reel.		
,	11 Thread tape through playback.	slots of heads for record	d and
	12 Engage tape end to	cake up reel.	
•	13 Rotate both reels b	y hand for about 1½ turns	•
	B. OPERATING		,
	3 REWIND TAPE		
	1 Check recorder for STOP mode.	STOP mode, if not keep it	in
	4 Set counter to 000	by pressing the button.	
	2 Switch on power of a	ecorder/amplifier.	

M V/ C-1/2/KCT-1

### C. RECURDING

- 3 Record test sound
- 4 Adjust volume control
- 1 Engage FORWARD & RECORD buttons, for stereo recording
- 2 Set mikes and switch to 'ON' position.
- 5 STOP after recording test sound and REWIND.
- 6 PLAYBACK.
- 7 REWIND, if satisfactory recording is done, after pressing STOP mode.
- 8 If unsatisfactory repeat again.
- 9 Complete recording for a minute & STOP.
- 10 REWIND.

#### D. PLAYBACK

- 1 Use FORWARD POSITION
- 3\_ Listen
- 2 Adjust volume and tone control
- 4 use fast forward to skip.
- 5 Use rewind to go back to particular segment.
- 6 Use index counter to locate programme.

#### E. PACKING

- 1 Switch off
- 2 REWIND
- 5 Romovo microphone
- 4 Disconnect amplifier cords and accessories.
- 7 Keep recorder in original position.
- 3 Remove reels, and tape.
- 6 Remove all other cords, accessories and store.

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Audio Aids Record Players C1/3 Performance Check list for Operating Record Player A . SETTING UP 1 Place and assemble gently on a truly horizontal surface. 5 Turn on amplifier 6 Turn on motor 3 Place speaker, if there is no built-in-speaker. 4 Plug in speaker cords into the receptacle. 2 Open the case. B. OPERATING 1 Select speed of turntable for 45 rpm record. 2 Select a 45 rpm record. 8 Place pickup arm stylus on record gently. 6 Start turntable. 3 Place record properly side I on the record player. 4 Select proper stylus for the record. 5 Adjust pickup arm weight if provided. 7 Unlock and lift the pickup arm. 9 Play for one minute. 10 Adjust volume 11 Adjust tone. 12 Lift arm 13 Replace it on rest. C. PUTTING AWAY 1 Lock arm 4 Amplifier off \_5 Remove record 3 Release turntable 7 Lock lid 6 Store all cords

M V/C 1/3/KCT-1

8 Place in original position.

2 Motor off

			`	,,,	,010 01					
				_					, KEY	, <sup>,</sup> /
•										
•	ور	MI MI	odule V			A	udio Ai	.ds	•	
		اللَّا كِيْرِي	n <u>i</u> t <b>l-</b> 6		رسن محفية بينس جير	R	ecord F	layers		·
C <sub>1/4</sub>			ance Che		t for	copyi	ng from	n a ste	reo disc	to an
	Â.	SETT	ING UP,						•	
		11	Place t	ape de	eck and	d ampl	ifier o	n tabl	е.	
		_2	Place r	ecord	player y to ta	on ta	able ne ck and	ar and amplif	connect ier.	
		_3	If ther						ace speak	ker and
~		5	Connect	bomer	cords	· .				
		4	Select	7/C bc	owe <b>r</b> sc	urce .	in all	the eq	uipment.	
		15	Push ru	apper c	caps or	both	spind]	es.		
		13	Engage	tape e	end in	the s	lot of	take u	p reel.	_
		11	Attach	subbj	y wheel	. to th	he othe	er spin	dle.	
		10	Attach	empty	reel t	o whe	el that	: turns	•	
		6	Select	speed	of tap	e dec	k (4.8	cm/sec	.).	
		7	Set spe	eod of	rècoro	d play	er to 3	33 rpm.		į
		8	Select	33 rpm	n rocor	d.		•		
		9	Check r	eel r	otation	n with	PLAY (	CONTROL	•	
		12	Thread	tape t	thr ough	reco	d/Play	/ heads	•	
		14	Rotate	both r	eels b	y han	d for a	about 1	½ turns.	
	8.	OP ER	ATING		·				•	
		<del>manda m</del> ora	Check t	cape de	eck for	stop	mode,	if not	keep it	in
ı		3	Rowind tope er	tape t nd does	to star s not ]	ting   Leave	point ( spool).	take	care that	t
		2	Switch	on pou	wer to	tape	deck/ar	nplifie	r.	
		<del>(</del>	Set cou						*	
		5	Kcep re	cord o	on turr	n tabl	e, sido	∍ 1 fac	ing you.	
		6	Select	aporor	riate	stvlu	s (33 r	(mn).	_	

M V/ C 1/4/KCT-1

9 Start turn-table.

8 Switch on record player.

0

7 Adjust pickup arm weight if provided. 11 Place stylus gently on record edge in the run-in-groove. 10 Unlock and lift pickup arm. C. RECORDING 1 Engage record and play (forward) levers for stereo recording (pross both L & R buttons). \_2\_ Play record for 15 seconds. 3 Adjust volume control. The needle should not show rud mark on tapo deck. 5 Check sound recorded. If unsatisfactory repeat 1 to 5. STOP tape and racord. 4 Stop record, tape, and rewind tape. 6 If satisfactory, rewind again, bring to stop. 7 Engage record & play of tape deck. 8 Play record for 1 minute. 9 Stop tape and record. 10 Rewind tape to 000. D. PLAYBACK 3 Play fully 1 minute. 1 Sring tape dock control to play/forward. 2 Adjust volume control. 4 Lift pickup arm and lock in position. E. PACK UP 2 Switch off tape deck, amplifier and record player. 1 Rowind tape.

5 Remove reels, tape and all connecting cords and store.

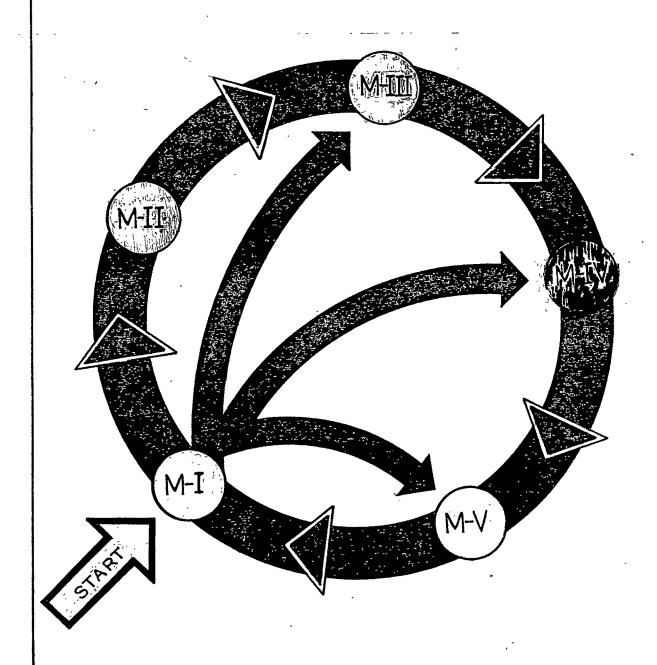
M V/C 1/4/KCT-2 -

7 Lock lids.

4 Remove record and store.

6 Ramove all accessories and store.

3 Release turn-table.



KRISHNAN.

'Course Test

SECTION - A

Time: 30 Min.

Use separate answer sheets for Section 'A', Section 'B',

Use separate answer sheets for Section 'A', Section 'B'. Section 'C' DO NOT Write anything on this question paper.

Return the question paper to the Instructor with the response sheet.

Answer Section 'A' first, hand it over, then section 'B'.

Answer Section 'C' separately on practical assignment sheets.

CIRCLE appropriate letter(S) a, b, c or d for Section 'A', on the response sheets.

1. What is the main difference between instructional goal and behavioural objective? (Circle the appropriate letter a, b, c, or d).

- a. From needs, behavioural objectives are stated in precise terms, and then the instructional goals are identified.
- b. Instructional goals are stated in more precise terms than behavioural objectives.
- c. Instructional goal is stated in general term while the behavioural objective is stated more precisely.
- d. Instructional goal is a broad statement or "What ought to be" (future need) while behavioural objective is a broad statement of "What are the present need of the instructions".
- 2. Which of the following statements are <u>not</u> classified as behavioural objectives? (Circle the letters a,b,c or d)
  - a. The trainee Will know filing.
  - b. The trainee will identify the data charts from other charts given to him.
  - c. The trainee will learn to use a slide projector.
  - d. The trainee will write the correct procedure in the order of performance for cleaning a carburet tor.

- 3. What are the three advantages to be gained from interactive instruction? (Circle the appropriate letter a,b,c or d).
  - Reep instructor active, tests every objective, validate instruction.
  - b. Keep trainee active, instructor and trainee determine progress at all times, and instructor adopts to trainee's needs.
  - c. Instructor and trainees determine progress, instructor tests sample objectives, trainees judge instructor ability.
  - d. Keep instructor active, instructor determinesprogress in the final examination, and instructor follow test and available books.
- 4. The purpose of validation is to: (Circle correct response a,b,c or d)
  - a. Make sure our instruction is effective
  - b. Test whether students can understand
  - c. Check continually on the trainee's progress
  - d. None of the above.
- 5. Which one of the following statement gives the reason that it is easier to validate interactive instruction?
  - a. Because interactive instruction is a two way communication.
  - b. We design instruction based on needs of the job.
  - c. We can monitor the trainee's progress continuously, find the deficiencies, correct the trainee and revise instruction.
  - d. We depend on the instructor's capacity to prepare objective questions.
- 6. What are the three key components of Instructional design? (Circle a,b,c or d for correct answers)
  - a. Instructional goals, instructional objectives, instructional needs.
  - Instructional goals, instructional objectives, validation.
  - c. Specific objectives, interactive instruction, validation.
  - d. Instructional need, instructional goal and interactive instruction.
- 7. By job performance requirements, we mean: (Circle correct letter a,b,c or d)
  - a. Everything the skilled worker must do on the job.
  - b. Degree requirements of prospective trainees.
  - c. Job description prepared by administrative personnel.
  - d. Stating the method of goal, free evaluation of a job.

\*\*\* First and foremost in the development of instructional materials is the task analysis. We do task analysis to find the job performance requirement - i.e., the skills and other behaviours exhibited by the worker on the job. There are four types of task analysis. They are:

- a. Stimulated task analysis
- b. Content analysis
- c. Observation task analysis
- d. Interview analysis

Four situations are given below.

Categorise. each of the following as one of the above four type of task analysis. You may repeat the type of task analysis applicable or do not use one type at all.

- 8. You are an expert electronics technician. From your own experience on the subject, you are analysing certain curricula for testing with different digital and analouge multi-meters.
- 9. You are entrusted with the design of instruction for operating a majox photocopier, and you are not an expert. First and foremost in the process you decide to completely go through the instructional manuals and other relevant literature supplied by the manufacturers.
- 10. A numerical control lathe has been ordered for your institute and you are given the task of formulating training schemes with that lathe. But you are not an expert in the field. You are not having the relevant literature, nor has any one with whom you can discuss about the issue. You have a worker who can do the job, but he is not conversant with the language. You have decided to .....
- ll. You do not know anything about optics, and you are required to do task analysis for grading the lenses, by the industry next door who are manufacturers of lenses. You have experts to consult for this task.
- 12. We determine training requirements: (Circle the correct item a,b,c or d)
  - a. From past experience of instructor
  - b. From job content description
  - c. By subtracting trainers entry level performance from job performance requirements.
  - d. All the above.

- 13. Which one of the following is the definition of a criterion test? (Circle correct answer a,b,c or d).
  - a. It is a sample of multiple choice test items for skill training.
  - b. It samples trainee's learning by testing objectives.
  - c. A criterion test is the same as norm referenced test given at the end of the semester.
  - $\dot{\alpha}$ . A criterion test is the one that is designed to test the objective.
- 14. Which one of the following statements is classified as the 'purpose of a job aid' (Circle a,b,c or d for correct response)
  - a. It eliminates unnecessary training in order to make the trainees more productive in a short span.
  - b. It prevents training time from being wasted.
  - c. It finds out job classifications.
  - d. It eliminates the presence of instructor from the teaching learning situation.
- 15. Which one of the following would you <u>categorise</u>, as developmental testing? (Circle a,b,c or d for correct response)
  - a. Test during the design of instruction.
  - b. Test at the end of the course
  - c. Test of the validation of course materials
  - d. Test to find out the entry level of the trainees.
- 16. We relate perception to the design of audio-visual aids by (Circle a,b,c or d for correct answer)
  - a. Providing perceptual experiences in terms of the teacher's past experiences, and present situation.
  - b. Providing perceptual experiences in terms of learner's past experiences, and present environment.
  - c. Providing stimulus different from the kind of experience the learner has.
  - d. Providing experiences that the best boy in the class has, so that the poorest boy can become equal to him, by using the audio visual aids, so designed.
- 17. Which of the following groups give correctly the seven components of BERLO'S MODEL OF COMMUNICATION? (Circle a,b,c or d for correct answer)
  - a. Sender, Receiver, Channel, Noise, Feedback, Brain, Senses.
  - b. Source, Encoder, Channel, Decoder, Destination, Noise, Feedback.
  - c. Source, Destination, Message, Channel, Noise, Feedback Senses.
  - d. Source, Encoder, Message, Nervous system, Decoder, Destination, Noise.

- a. Your answer to this test.
- b. Lifting a telephone when it rings.
- c. Content presented to learner like this unit (sound slide)
- d. Stopping at red traffic signal.
- 19. Which one of the following group gives the three domains of behavioural outcome categorised by BLOOM? (Circle a,b,c or d for correct answer)
  - a. Attitude, knowledge and skill.
  - b. Signal learning, concept learning and rule learning
  - c. Cognitive, affective and psychomotor.
  - d. Attitude, value, appreciation.
- 20. Which of the following statements is not a difference between audio visual aids and media?

  (For correct answer circle a,b,c or d)
  - a. An audio visual aid is a device that assists an instructor or teacher whereas media are physical means of conveying instructional inputs.
  - b. An audio visual aid is used by an instructor as part of his instructional strategy or as an individual entity of his own, while media is used as inputs within an instructional design determined by the instructional design requirements.
  - c. Audio visual aids are used as supplements to instruction or for enrichment purposes while media are integrated components of a system.
  - d. Audio visual aid is an aid used during the instruction by the trainees and the instructor, while media helps only the trainees to do individualised learning without the teacher.
- 21. A teacher is to start the first class for his trainees as TV assemblying and checking.

All necessary equipment and tools have been set up for demonstration by the attendant. The instructor has with him teaching tapes, a video programme on the subject, quiz and answer to the quiz and the equipment-TV tube, transistors, IC, and other parts - and tools. Categorise the last item i.e., the equipment and tools as one of the following.

- a. Audio stimuli
- b. Visual stimuli
- c. Audio visual stimuli
- d. Visual response.

- 22. What is the minimum letter size a visual displayed in front of a classroom 10 m deep so that it can be read by a person sitting at the last row.
  - a. 20 mm
  - b. 25 mm
  - c. 6 mm
  - d. 50 mm
- 23. Which one of the following is the most important reason, why legibility standards must be considered for any visual, so that
  - a. they can be read easily by audience sitting at an anticipated maximum distance?
  - b. they can be read easily by any student sitting in the middle of the class?
  - c. they can be read with ease by students sitting in the front row of the classroom?
  - d. they can be easily read by student sitting anywhere.
- What is the maximum ratio of letter height to the height of the art work you would adopt if you prepare a transparency of size 25 cm X 25 cm?
  - a. 1:50
  - b. 11: 25
  - c. 2: 3
  - d. 1: 4
- 25. Which type of graph is best suited for following: -
  - "Expenditure on audio visual equipment incurred for a college in 1980-81 is : Record players 20%, Tape Recorders-30%; Slide Projectors 15%, Notion picture projectors 25% and opaque projector 10%.
  - a. Bar graph, b.pie graph, c.Line graph, d.picto graph.
- 26. If a sequence of information which would be difficult to show on a single chart is to be presented to your student, which one of the following chartswill you prepare?
  - a. Strip chart
  - b. Flip chart
  - c. Schematic chart
  - d. Flow chart.

- 27: In a situation where diagramatic outlines and the image representation of the object is to be used for the purpose of explaining the function of the object; which one of the following will you make?
  - a. Exploded chart
  - b. Flow chart
  - ci Animated chart
  - da Schematic chart
- 28. For showing the movement of the shutter over the aperture in a 16 mm projector, you are to use a chart. Which one of the following would you use?
  - ä. Tree chart
  - b. Animated chart
  - c. Diagramatic chart
  - d. Exploded chart
- 29. Select the statement among the following, which you consider is not a characteristic of posters.
  - š. Self contained message
  - b. design and colour
  - c. supported by detailed explanation.
  - d. attaractiveness.
- 30. Which one of the following is not considered as a requirement of cartoons?
  - a. the symbol's must be clear
  - b. simplicity
  - e. should contain detailed explanation
  - d. should meet the experience level of audience.
- 31. Which one of the following is the best definition of bulletin board
  - a. A bulletin board like a notice board is to paste notices meant for students about their assignments, examination dates etc.,
  - b. A bulletin board is to pin various advertisements about availability of sale articles.
  - c. A bulletin board unlike notice board displays instructional informative visuals and kept for fixed short duration.
  - A bulletin board unlike notice board displays informative visuals and kept for longer duration to enable everyone to see many times.

- 32. A flannel board cutout utilises the adhering quality of
  - a. fevicol
  - b. gummed cutouts
  - c. masking tapes
  - d. textural materials
- 33. Which of the following materials are not suited for making flannelboards?
  - a. Flannel
  - b. Felt
  - c. Corduroy'
  - d. Terrene
- 34. Which one of the following factorswill you consider best to determine the size of the flannel board.
  - a. number who must view the board
  - b. distance from which it must be viewed
  - c. nature of the material appearing on the board
  - d. quality of the adhering material.
- 35. Which one of the following is NOT a feature of chalkboard?
  - a. It can be versatile with diagrams by colour chalks
  - b. It can be easily erased
  - c. It produces glare
  - d. It provides maximum constrat with background.
- 36. For drawing horizontal strokes the chalk length should be kept.
  - a. inclined downwards
  - b. horizontal
  - c. inclined upwards
  - d. inclined sideways

- 37. When you draw horizontal strokes, the line at the end bends up. The reason is
  - a. Body sways towards back
  - b. Right leg is not bent as the line progressed
  - c. Taking the body close to the chalkboard
  - d. You are away from the chalkboard to enable you to write.
- 38. While Writing on chalkboard the chalk piece is rolled to
  - a. avoid wastage of chalk
  - b. prevent frequent break of chalk
  - c. maintain uniform thickness in writing
  - d. reduce strain on fingers.
- 39. While preparing for a chalkboard presentation on a series of intricate parts of component or a machine, you are required to explain with a diagram various elements in the assembly and their location. The type of diagram you will prepare and use will be:
  - a. line diagram
  - b. strip diagram
  - c. progressive diagram
  - d. exploded diagram
- 40. Template and pounce parttern are used for
  - a. prepared diagrams
  - b. progressive diagrams
  - c. helping students to draw
  - d. animated drawings.
- 41. Chalkboard summary is essential to highlight the important aspects of a lesson. What is the best way of doing this, if you are the teacher.
  - a. in note form
  - b. in essay form
  - c. written before the class assembles
  - d. dictated.
- 42. You do not have facilities for darkening the room.
  You are given the following projectors to be used in the illumminated room, and you have to use them, facing class. Which one will you select?
  - a. epidiascope
  - b. overhead projector
  - c. filmstrip projector
  - d. slide projector

CRCT-9.

- 43. Which one of the following projection equipments will enable you to get in a classroom, the biggest screen image over a short projection distance?
  - a. Overhead projector
  - b. Slide projector
  - c. Epdiascope
  - d. 16 mm motion picture projector
- भ. You are not having a chalkboard for taking a class, but you are given the following aids and equipment to use them. Select the aid that will permit you to add information to it, while using them.
  - a. 16 mm. film
  - b. slide
  - c. transparency
  - d. filmstrip.
- 45. While one of the following projectors while using in the classroom, permits the instructor to face students and watch the content of the projectual at the same time?
  - a. Filmstrip projector
  - b. 16 mm. film projector
  - c. Epidiascope
  - d. Overhead projector.
- 46. Which the following projectors permits you to project materials from text-books directly?
  - a. 16 mm. motion picture projector
  - b. Slide projector
  - c. Overhead projector
  - d. Epidiascope.
- 47. Which one of the following parts of a projector ensures that all light is directed forward?
  - a. làmp
  - b. condenser
  - c. reflector
  - d. objective lens.

- 48. When you use overhead projector, you place the transparency on the stage, such that
  - a. You can read what is projected
  - b. bottom of the transparency faces class
  - c. it is placed upside down
- 49. The maximum size of transparencies that could be prepared by you for overhead projection is:
  - a. 300 mm X 300 mm
  - b. 250 mm X 250 mm
  - c. 300 mm X 250 mm
  - d. 36 mm X 24 mm
- 50. Which one of the following faults in your T.V set occurs due to R-F interference (radio frequency)?
  - a. Ghosts
  - b. Snow
  - c. extraneous electrical signals
  - d. break in antena cable.
- 51. Which one of the following is NOT a standard speed of record players?
  - a. 78 rpm
  - b. 45 rpm
  - c. 33½ rpm
- 52. A teacher has to explain the various parts of a camera to a batch of 50 students in a classroom. Which one of the following aids will you choose for the purpose?
  - a. an actual camera
  - b. a transparency with picture of camera
  - c. a set of slides with pictures of camera
  - d. an enlarged mockup of the camera.

- 53. You are required to demonstrate different tools for filing, to ten trainees. Which one of the following aidswould you recommend for use as most appropriate?
  - a. Flip charts
  - b. A set of slides
  - G. Explain with aid of audio tapes
  - d. Use actual filing tools.
- 54. An expert surgeon is doing a heart transplantation. A professor decides that all medical students enrolled for his class for the 3rd year MBBS. course 150 Nos. -shall see the operation; (which is rare to be witnessed) at the same time all doubts on that will be cleared during operation. Which one of the following aids would you decide to recommend?
  - a. A TV set kept in an auditorium where all will assemble.
  - b. A 16 mm movie film presented in an auditorium for all students.
  - c. The professor making announcements from the operation theatre and all students assemble in a hall.
  - d. A CCTV system displays the operation in eight classrooms where TV sets are arranged with a tutor for each group.
- 55. For the following objectives, which one of the aids given below will be selected by you for teaching the working of a four stroke cycle?

Objectives:

The student shall at the end of the lesson

- \_. identify different parts of the engine.
- 2. identify the TDC and BDC.
- show the functitions of the 4 stroke cycle,
- a. a static model
- b. an overhead transparency with overlays
- c. a sound slide presentation system
- .d. a working model.
- 56. Which one of the following aids would you select for showing 'how to operate a 16 mm sound projector to a group of 25 trainees' in your class room?
  - a. Actual demonstration.
  - b. Lecture with chalkboard drawings
  - c. Lecture with charps
  - d. 16 mm, motion picture on the subject.

- 57. Which of the following circumstances will require you to decide the use of visual aid:
  - a. Difficulty experienced in lecturing due to throat trouble.
  - b. Higher level of abstractions are to be taught better
  - c. Principal desires that in each class you must use visual aids because your Institute has a large collection of aids.
  - d. The students find it more enjoyable to see a film than to hear a lecture from the instructor.
- 58. Which of the following is <u>NOT</u> the rationale in the use of multi-media?
  - a. Different media are necessary to serve different instructional purposes.
  - b. Since students have different learning styles, alternative ways of study habits should be provided.
  - c. Since multimedia presentations have combined different modes they provide more effective communication.
  - d. Many of us select media on the basis of availability and ease of use in the classroom.
- 59. A multi imagery presentation is usually.
  - a. Combination of charts, books, periodicals
  - b. Exhibition, bulletin board and felt board presentation.
  - c. Overhead projector, models, mockups and radio.
  - d. Sound slide system with three slide presentations simultaneously.
- 60. Which one of the following is <u>not</u> the case of learning by verbal abstraction?
  - a. Books
  - b. Programmed texts
  - c. Demonstration
  - d. Microfilm.

HAN DOVER YOUR RESPONSE SHEETS AND QUESTION PAPER TO YOUR INSTRUCTOR.

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COURSE TEST SECTION - B Time: 90 mts.

Use SEPARATE answer sheets for Section A, Section B and Section C.

DO NOT write anything on this question paper.

Return the question paper to the instructor with the response sheets.

Answer Section A first, hand over the answers to instructor, then answer Section B, hand it over to the instructor, and thereafter Section C.

USE SEPARATE RESPONSE SHEETS, and answer in the space provided as directed in this question paper.

- 61. Arrange the following in the order in which they are to be followed for instructional design. Write against the alphabet a,b,c,d,e,f,g, and h, the number according to the order.
  - a. job performance requirements.
  - b. identify training requirements
  - c. define course objectives
  - d. construct criterion test
  - e. field implementation
  - f. design instruction
  - g. validate instruction
  - h. take follow up action.
- 62. Categorise the following as aids that can be heard, seen, and heard and seen. Write in the space provided on the response sheets against alphabets a, b, and c.
  - a. audio aids
  - b. visual aids
  - audio visual aids.

CRCT\_14

1: 11,.

63. Categorise the following as projected aids, non projected aids, by writing P for projected aids, and NP for non-projected aids. ADD suffix sound to those items with sound along with it.

Write against the alphabets a, b, c ..... p on the response sheets.

- a. Posters e. Recordings i.Television m.Overhead
- transparency b. Charts j.Soundslide f. Chalkboard n.Flat pictures
- c. Radio g. Filmstrips k.mockups o.Motion pictures
- d. Models. h. Slides 1.maps, graphs p.audio tapes.
- 64. List five recognised contributions of audio visual aids to learning. 1
- 65. List the five senses through which we learn.
- 66. Arrange the following in the order in which they are given by Edgar Dale starting with No.1 for the item on the base of the cone, and ll for the item on the apex of the cone. Write against alphabets given in the response sheet the number in the order.
  - a. Direct purposeful experience. g. television
  - b. Dramatised experiences
- h. exhibits
- c. Contrived experiences.
- i. field trips

d. Motion picture

j. demonstrations

e. Vèrbal symbols

- f. radio, recordings and still pictures.
- k. chalk board, charts, maps and diagramms
- Jerome S.Bruner has related three kinds of experiences, & \*\*\* three major modes of learning. They are:

three kinds of learning experiences: three modes of learning.

A. direct experiences

symbolic a.

B. pictorial experiences

- b. iconic
- C. highly abstract experiences
- enactive C.

Edgar Dale, in his cone of experiences classified various types of instructional materials according to the relative degree of experiences - direct, pictorial and highly abstract and the three modes of learning made by Bruner - enactive, iconic and symbolic.

Now in the response sheet, for questions 67 to 77. Write down against the numbers of the items given below i.e. 67 to 77 representing the eleven range of Dales Cone of experiences with the apphabet in Capital letter (A, B or C) indicating the kind of learning experiences and with the alphabet in lower case letters (a, b or c) indicating the modes of learning that are related to each of these eleven items.

- 67. Direct purposeful experiences
- 68. Dramatised experiences
- 69. Demonstrations
- 70. Verbal symbols
- 71. Recordings, Radio and Still pictures
- 72. Educational Television
- 73. Study strips
- 74. Contrived experiences
- 75. Exhibits
- 76. Motion pictures
- 77. Chalk board, charts, maps, diagrammes.
- 78. Enumerate the five principles of visual design.
- 79. Name the five visual tools that contribute to the successful use of five design principles.
- 80. State the five guide lines that will contribute to good legibility in lettering.

81. Match the following, by writing against items in column I corresponding numbers of items given under column II. Write the answers on the response sheets, against corresponding alphabets a,b,c,or d.

Column-I	<u> Column-II</u>
aBar graph	
b. Pie graph	
	TRES
c Picto gra	
d- Hina oraș	30 A
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82.	List four methods of enlarging or reducing pictures.
83.	State three functions of using a poster ( in a classroom.
84.	State seven characteristics of a flannel board.
85 <b>.</b>	Define Model:
86.	Define Mockup
87.	State the purpose of using mock ups for instructional purposes.
88.	In any projection, the following defects are called
F <b>i</b> g	• a. Fig. b.
89.	For the defect shown in fig. a above, you have to align projectorly.
90.	For the defect shown in fig. b above, you have to align projectorly.
91.	Give one example each of the projector that gives
	a. indirect projection and
	b. reflected projection
92.	Under col. I are given some of the aids and under Col. TI some of the advantages of the aids. Match aids against the appropriate advantages given under Col. II. Write on the response sheets against the number, the appropriate alphabets of col.I. There may be more than one matching item.

# Col.I

#### Col. II

\_ a. Multi Media 1. Require no equipment for use. b. Multi imagery 2. Are compact, series of projected visuals for use in sequence. \_\_ c. O.H. Transparency 3. Flexible and adaptable for independent study. Do not require projection. \_ d. Motion picture 4. Useful for large groups and projected from front of the room. 5. A series of visuals that could be interchangeable visuals that can \_\_\_\_e. Filmstrips be combined with and synchronised with taped narration; usually adopted for large and small groups. Are particularly useful for show-ing relationships describing ... \_\_\_\_f. Slides

groups.

- g. Recordings
- 7. Combines different media and offers capability to make analyse of a live action on the spot.

motion, and useful for large

- h. Television
- 8. Combines different media and provide different visuals at the same time with taped commentary and comparison of the situation with possibilities of magnification.
- \_\_\_\_i. Photographs
- 9. Useful for individual and group study.
- j. Programmed
  Instruction.
- 10. Combines different media, used in combination with many others, both for independent study and group use.
- ll. Ensures consistency in presentation of all instructional materials.

93. Which one of the audio visual aids given under Col.II can best serve the purpose stated in Col.I. Give. 283 against each alphabet under Col.I given in the response sheet, the appropriate number of items given under Col.II. You may have more than one answer.

		- I was a second	7.T.C. A	o more unan c	, iii	TIPMGT.
		Col. I			<u>Col</u>	• <u>II</u>
	a.	Outline of a pr	oćè	ss	1.	motion pictures
	b.	skills involvin	g m	otion		transparency
	c.	repairing of in	tri	cate parts	3•	slide series
***************************************	d.	identification electronic comp	of one:	sma <u>ll</u> nts	4.	television
	е.	I.S.I. symbols.			5.	originals
	f.	Different types	$\circ f$	Stone walls	6.	Charts
	g.	Measurement wit	h a	micrometer	7.	Poster
					8.	Flannel Board .
		,			9.	Magnetic Board
		_			-	Bulletin Board
					11.	Programmed text
	pr di ar ag	icated process. resentation would ifferent groups. Id the methods of gainst alphabets	Wh: I you I! f p: on giv	ich one of the pu propose to the groups are resentation ue the response on under Col.	e fo add glv nder she	
		<u>Çol.I</u>			<u>Col.</u>	<u>II</u>
<del></del>	a,	individual students	1.	books, Workb publications	ook,	guide and other manufacturers.
	<b>b</b> •	small group	2.	TV programm	e	
	C	study large size	3.	Sound slide	pres	entation
	•	group.	4.	16 mm. sound	fil	m
			5.	lecture with	HO a	t ransparency
			6.	lecture with	ı stu ıesti	dents responding ons.
			7.	programmed t		
			8.	lecture-demo	nstr	ation
			9.	multi media	& di	scussion

10. simulators
11. discussions

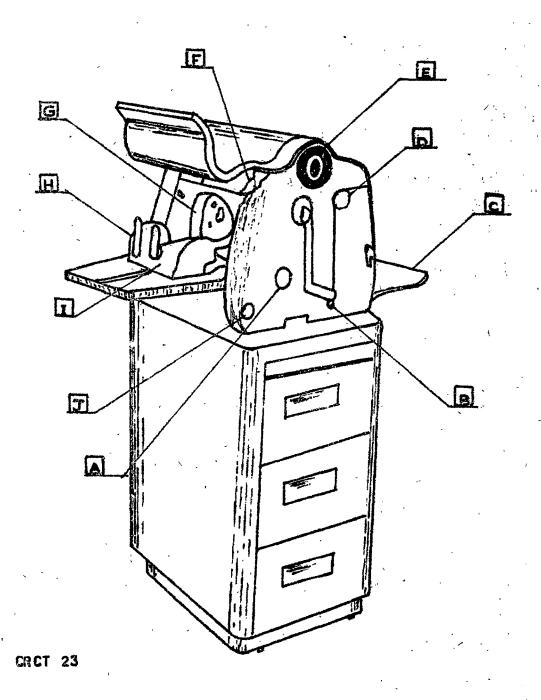
12. demonstration

CR CT 20

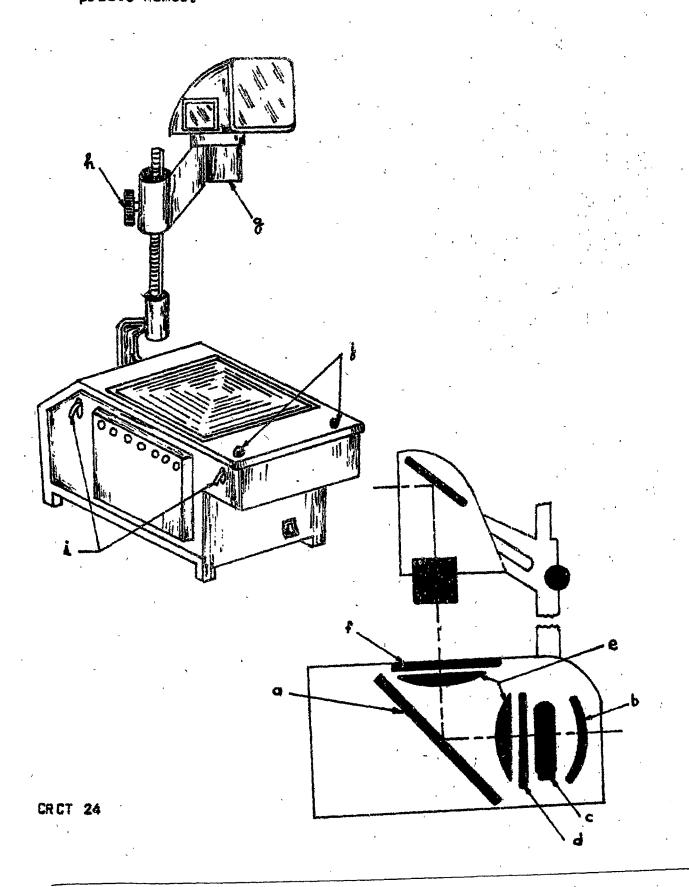
. 95•	Name the four most common forms of reproduction processes 284 available at the Central Training Institute, Madras.
96.	Name four materials used for spirit duplication.
	FILL UP THE BLANKS, STELECTING FROM ITEMS GIVEN WITHIN BRACKETS
97•	Record players use while tape recorders use for playing sound. (disc, tapes, films)
98.	Cassette tapes has a constant speed of (H.75, 9.50, 19cm/sec.).
99•	Cassette tape C 60 is used to play forminutes (60, 90, 120 mts.)
100.	For monophonic reproduction we require speakers and stereophonic reproduction we require speakers. (one, two, four)
101.	The camera used for making single frame filmstrip is (120, 35mm, 16mm.)
102.	The dimension of a mount of standard slide is (50 mm x 50 mm, 35mm x 35mm, 70mm x 70mm).
103.	The size of a double frame film strip picture format is (35mm x 35mm, 35mm x 24mm, 36mm x 24mm.)
10+.	The preportion of sides of a 35 mm slide picture is(1:2; 2:3; 3:4)
105.	The speed of a 16 mm sound film is (18 fps, 24fps, 40fps).
106.	A projector that can project opaque three dimensional objects in silhoutte is (filmstrip, projector, slide projector, overhead projector).
107.	The self instructional study area where tape recordings and projected materials can be used is kown as (Accoustic room, Booths, Carrel).
108.	A chart having moving parts is called chart. (Exploded, flip, animated).
109.	While making stereophonic recording we record on the tape in track in the same direction. (single, double, four).

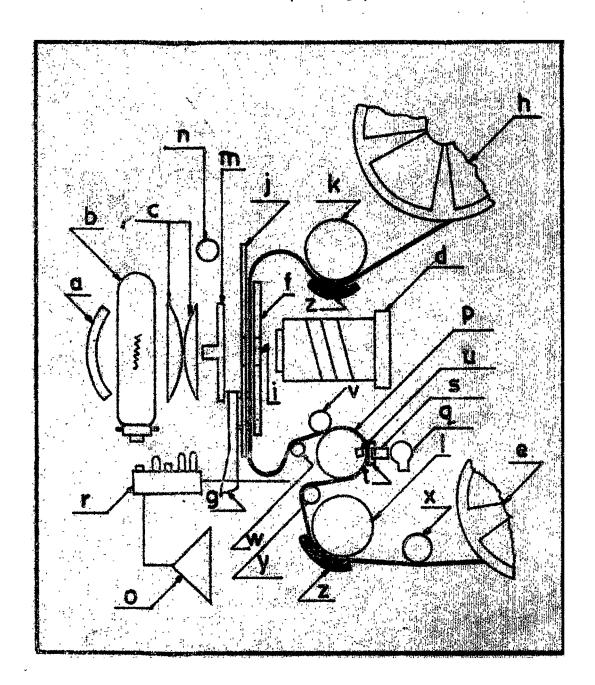
110.	To prepare a master pack for spirit duplication; we keep the carbon side facing master. (Carbon between backing and master; master between carbon and backing; backing between carbon and master).
111.	Write the order of Operation of the Spirit duplicator.
	a. Check fluid in the tank.
	b. Insert paper in feed tray,
	c. Adjust pressure lever
	d; Adjust paper guides, grippers
	e. Check the wick for moistness.
	f. Turn drum to proper position
	ε. Adjust impression stength
	h. Adjust margin, top and bottom and sides.
	i. Insert top edge of the master into the opening, with carbon facing up.
	j. Depress clamp lever to open the clamp
	k. Return the clamp lever
	1. Check spirit flow
	m, run copies
	n, set counter
	o. Turn drum to initial position
	p. Open clamp lever.
	q, close clamp lever
	r. remove master and cover with specimen sheet.
	s, set copy control to 0 position
	t. Set pressure control lever to 0 position.

112. In the sketch given below, some parts of the gestetner duplicator are marked by alphabetical letters, a,b,c... Write on the response sheet against the alphabets, the name of the parts of the duplicator.



113. Some of the parts are marked a,b,c,d... in the sketch below. Write against the alphabets on your response sheets the appropriate names.





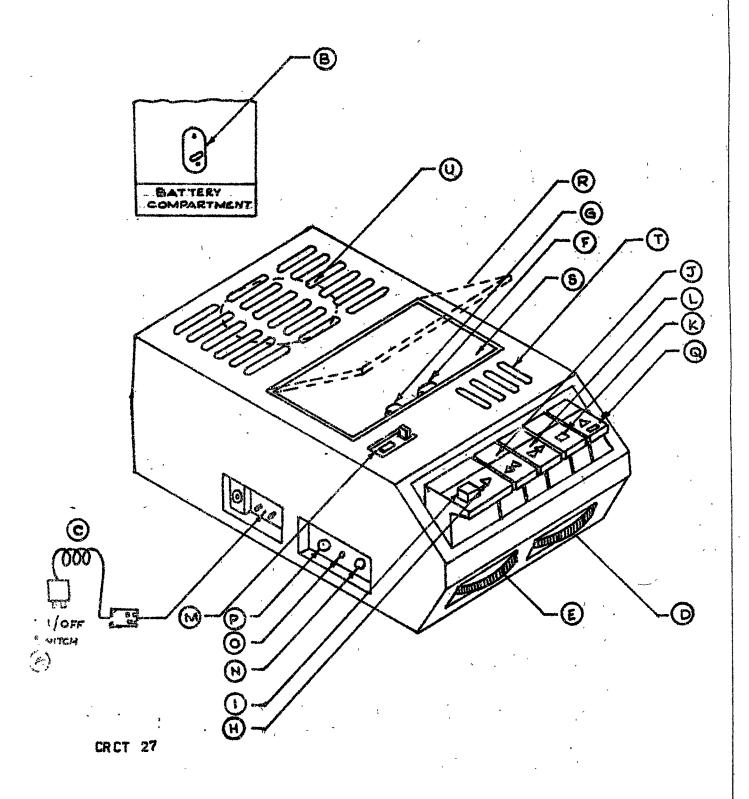
CRCT 25

- 115. A stencil you have prepared is found to be defective,

  The comies get or opped during duplication; State how
  to solve the problem; in your own words;
- 116. Explain how will you prepare a transparency for everhead projection using electronic scanning machine Gestetner esp 79:
- 117. You have to produce a good quality audio recording and do not have an accoustically treated room. You are required to suggest an alternative, simple and economical way to improve the room condition for the recording purposes.
- 118, You have to purchase a record player. It is reported that Phillips GA 242 is a good one. If you have to purchase this record player, you must have to purchase in addition to speakers one more item. What is that item?
- 119. In some of the tape recorders you have three heads. Each head performs different functions. If one of the headsis removed and two heads are to be used, state what functions will be combined in one head?
- 120. In the sketch given on the next page, some of the parts of an audio cassette recorder are marked by letters a, b, o, d, ,...,

Mark on your response sheet the names of these parts against the ourresponding alphabets.

120.



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COURSE TEST

SECTION C

TIME 90 Mta

Use soparate response sheets provided for questions 123, 125, 127, 130 and 134. Write your roll number on the response sheets. Return question paper to your instructor along with response sheets. Do practical exercises under supervision of the instructor. Write the performance check lists for questions 123, 125, 127, 130 and 134 before you attempt practical questions. Time is very important for all practical questions. You must have completed Section A and B before answering Section C.

121. In the time table for instructor training programme the number of hours alloted per week are given below. Show this by a graph, which will give proportionate timing and whole time required for the week.

Trade Practical -- 10 hours Trade Theory 6 hours Science 3 hours . Calculation 2 hours Procision Measuring Instru-2 hours ments. Pedagogy 4 hours A.V. Theory -- 2 hours A.V. Practicals 2 hours Engineering Drawing 3 hours Library 1 hour Test 1 hour

15 mts.

- 122. Propage a folding chart to have four visuals on the trade theory applicable to you. (Continuum to be maintained).
- 123. Performance Check list

  The performance Check list for operating Overhead

  projector given below is not in projector. Number

  1,2,3 ... etc., against each step in the correct
  sequence.

					,
PR	OCE	DURE	-	29	5
Α.	SE	TTIN	**************************************		
	Milita — A	LTA DETAIL		Connect power cord and switch.	
	Walter 2	/* = <del></del>		Set up the projector cord and switch on	
,	er mr	FT OF ST		Adjust image size.	
	14 14 14 14 14 14 14 14 14 14 14 14 14 1	'A. MINE		Put test transparency.	
	***************************************			Adjust top mirror.	
	core: a	PI TANDROOM	F.	Focus.	
0	OD	ER ÀT	TON	1	
ο,	UP.	EU H	101	<u>.</u>	
	gungan mi		а.	Replace test transparency with a set of overhead transparency with overlays and manipulate overlays.	
	gana.ms	r englandisch	ь.	Replace with a transparency containing a number of items.	
	trians di	, ,	c.	Using pencil write on the scroll.	
	**** · ~	a-Neverberri	d.	Attach scroll.	
				1	
€.	Бñ	TTIN	IG F	AWAY	
	Statute - Li	many takan	a.	Pack up power cords	
	(CNA/THE	r c 11.200	b.	Switch off and bring to normal the position of parts.	
	e	a mar Tauma	C.	Remove and pack up transparency.	
				3 mts.	
12	4.	Set	uр	and operate an Overhead Projector to project	
	•			transparent object, (2) hand made coloured	
				arency.	
			,	5 mts.	
12	5.	Perf	orn	mance Check List	
		The	per	formance Check list for operating Video	
		cass	sett	te recorder given below is not in . sequence.	
		Numb	er.	. 1,2,3 etc., against each step in the	
		cori	ect	sequence.	

```
PROCEDURE
```

```
set videa made.
  b. Connect V.G.R. and T.V. to the power supply.
  B. Awitch on mains payer (V.C.R.)
     Remove TV and VCR from the boxes and place them
     in Areper place
  e Aet eperate switch,
  f. Switch on power (TV);
  g. Cover the VGR and TV.
   h, Lead video cassette correct side up,
  i. Switch on the test pattern.
  j, Adjust VCR to channel 37.
   k. Adjust TV receiver to channel 37
   l. Set the pattern with the help of a
                                         prestuner.
   m. Press eject key.
n, Switch off the test pattern.
   e, Adjust valume gantrel.
  p. Aress cassette holder down gently.
     For solour projection adjust colour density for
      cerrect balance.
   t. Press sound key.
   s. Deprese play key.
   t, Adjust tone *control.
   u. Press stop key.
   v. Put off the TV and VCR main switch.
   w. Remove cassette.
   x, Repack carefully.
 y. Put off the operate switch.
__ z. Remove all connections.
 _ z1. Glose the cassette holder.
   *2. Press ejeck key.
   za Connect VCR to TV.
```

7 mts.

126, Using Weston Video Casestte recorder, show a colour T.V. presrance for one minute on Weston Television.

5 mts.

127.	The performance check list for operating Lennox 200	
	given below is not in sequence. Number 1,2,3	
	etc., against each step in the correct sequence.	
	PROCEDURE	
	a. Rest both sheets touching left hand guide and mov forward so that original enters in lower slot and copy enters upper slot.	'e
	b. With original facing up, place coated side of the copy paper on top. Coated side is much whiter than the uncoated side and can be easily distinguished.	
	c. Open the front door by turning the knob to horizontal position.	
	d. With plate in position, push back door to close and turn the knobs to back.	
	e. Then align the original and copy paper along loft and top edges.	
	f. Start the machine.	
	g. Position the feed plate taking care that notch in centre of the plate engages in the guide pin of front door assembly.	
	h. Switch off the machine.	
	i. Pick up the original from the bottom and the copy from the top.	
	j. Release the grip on sheets, immediately when these are caught in the rollers:	
128.	Set up Lennox and take copy of a line drawing. 3 mts.	
	5 mts.	
129.	Record for 30 secs.on a cassette tape a given	
	passage. Start from setting up until packing.	
	5mts	

130. Performance check list for operating Record Player given below is not in the correct sequence. Number

1,2,3,.... etc. against each step in the correct sequence.

PRO	CEDURE	•	
Â.	SETTING	<u>up</u>	
	a.	Place and assemble gently on a truly hor	izontal
	ь.	surface. Turn on amplifior.	
	E-	Turn on motor.	
	d.	Place speaker, if there is no built-in-s	peaker.
	0.	Plug in speaker cords into the receptacl	.Θ.
	f.	Open the case.	
В.	OP ER AT IN	<u>G</u>	
	. B	Select speed of turn-table for 45 rpm re	cord.
	b.	Select a 45 rpm record.	
	C.	Place pickup arm stylus on record .gent	1y.
	d.	Start turntable.	•
	8.	Place record properly side I on the reco	ord player.
	f,	Select proper stylus for the record.	•
	9.	Adjust prickup arm weight if provided.	
	h.	Unlock and lift the pickup arm.	
	i.	Play for one minute.	
	j.	Adjust volumo.	
	·k.	Adjust tone.	
	1.	Lift arm.	•
	m.	Replace it on rest.	
С.	PUTTING	<u>AWAY</u>	
	a,	Lock arm	
	b.	Amplifier off.	
	C.	Remove record.	
	d.	Release turntable ,	
	8.	Lock lid.	
	f,	Store all cords.	
	9.	Motor off.	
	h.	Place in original position	7 mts.

131. Operate the H.M.V.Fiesta record player and play 78 rpm, and 33 rpm each for one minute.

5 mts.

132.	Thread the given 16 mm motion film in the motion picture
	prejector manually.
133,	Project a given page of the text book to get en image of
	the picture on an Al size paper leaving 1 am margin
	alround, 5 mts
134,	Following checklist for operating a spirit duplicator is
	not in an orderly sequence, Number 1,2,5,, eqainst each
	of the sub heads in the correct order.
	A. Ready the duplicator
	a. Adjust erassure of impression relier
	þ. Adjust guides if any
	C. Check for moistness of felt, wet if necessary
	d. Insert paper in the feed tray
	e. Rotate and check for praper flow of fluid
	fig Clean duplicator if required
	$\overset{d}{=}$ . Theck for fluid in the tank, add if necessary
	$\frac{1}{2} \int_{\mathbb{R}^{2}} d\mathbf{r} d\mathbf{r} d\mathbf{r} d\mathbf{r} d\mathbf{r} d\mathbf{r} d\mathbf{r} d\mathbf{r}$
	B. Attach master
	a, the side width carbon impression faces up
	b. Insert top edge of master into the opening
	c. Turn handle to 700'cleck position
	d. Return the clamping to mormal position.
	e. Rotate handle equnter clockwise
	f. Then rotate handle clock wise
	G. Run copies
	a. Run copies, feed paper & check centinually
	sbirit' bebar and other adjustments
	b. Check again apirit flow and adjust if needed
	o. Run test sheet
	d. Set counter for depy numbering
	e. Adjust impression strength
	f, Adjust margin (both top and bettem).
	D, Leave Machine
	a. Remove and store apirit
	b, Set copy control knob and mressure control knob to zero
	G. Replace dust sover
	d. Rotate clockwise again, close clamp lever,
	•

134. contd.

tections-recover	⊖.	Remove and store unused paper
	f.	Stop handle to 7'0 clock position .
	9.	Rotate counter clockwise, open clamp
	h.	File master after stapling to it a specimen
	i.	Remove master without touching the carbon
		impression
	i.	Clean the machine and

Course Test

Roll No:

RESPONSE SHEET

Trade :	
COURSE TEST	SECTION C
123. A a, b, c, d, B a, b, c, d. C a, b, c.	e, <u>f</u> .
125. a, b, c, d,	l,m,n, s,u,
127a,b,c,d, h,i,j.	e, <u>f</u> , g,
130. A a, b, c, d,  B a, b, c, d,  h, i, j, k,  C a, b, c, d,  h.	e,f,g,
134. A. a, b, c, d,  h.  B. a, b, c, d,  C. a, b, c, d,  D. a, b, c, d,  h, i, j.	e,f.
	·

-	AUC		ΚE	Y						
COL	JRSE	ETES	ST	, ,	1 m				SECT	ION'A'
①	2	3	4	5	6	0	8	9	10	, ,
a	a	a	<b>a</b>	8	a	<b>a</b>	a ·	a	<b>a</b> (,	,
٥	Ъ	<b>(b)</b>	b	þ	Ъ	b	b	<b>(b)</b>	<b>p</b> ,	
0	c d	c ď	d d	(D)	c d	d	(C)	c d	<b>o</b>	,
11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	
(a)		- a	(e)		a		a	a	· a	•
<b>b</b>	a b	b	ь	(a) b	<b>b</b>	Ъ	b	b	ь	
Ç,	<b>©</b>	C	C	C	c	2	<b>©</b>	<b>©</b>	c	•
d.	d	<u>(d)</u>	d	d	d	d	d	ď	<b>(d)</b>	
(21)	22	23	24)	25)	26)	27	<b>28</b>	(29)	(30)	
a	a	<u>a</u>	a	a	æ	a	8	a	a	,
Ъ	<b>(b)</b>	b	b	(P)	<b>(b)</b>	р	Ъ	ь	ь (	-
d	C d	c d	c d	e d	. d	ð	c d	<u>о</u>	<b>©</b>	
(31)	(32)	(33)	(34)	(35)	33	(37)	(38)	(39)	(40)	
a	a	a	a	a	a		a	a	<b>(a)</b>	
D (1	b	b	Ъ	b o	<u>(b)</u>	b	b.	ь	ь	
(e)	d	(g)	<b>c</b> d	© d	<b>c</b> d	c d	© d	<b>Q</b>	. c	,
	<u> </u>		-		-					
41	42	43)	44)	45)	46)	47	48	49	(50)	·-
(a) b	а Ъ	<b>a</b>	a	a.	a	<b>a</b> ·	a	å b	a )	
		b	<u>С</u>	b	a b	© p	b		©	
c d	c d	c d	d d	ő	c d	d	, e d	c. - , d:-	0	'A 3
d (51)	(52)	(53)	(54)	(55)	56	57	(58)	(59)	(60)	· · · · · · · · · · · · · · · · · · ·
a	a	a	a	a	<u>a</u>		a	а	a	
ь	b	b	b	b	<b>b</b>	a b	b	þ.	b	,
0 (	<b>©</b>	c C	c	°	C	c	<b>©</b>	°	0	
<b>(</b>	d	<u> </u>	<u> </u>	<u> </u>	đ	ď	<u>.</u> d	<u> </u>	<b>a</b>	
` .		• ,								

· C\_\_\_\_\_.

75. <u>A</u>

COL	JRSE TEST KEY; SECTION B.
76:	Balance Control of the Control of th
77.	Because a la l
	1. Dominance 2. Simplicity 3. Harmony or unity 4. Pattern 5. Balance
<b>7</b> 9.	1. Line 2. colour 3. Texture 4. Shapa & size 5. Space.
80.	1. size 2. Style 3. Layout 4. Spacing 5. contrast
81.	a. 3 b. 1 c. 4 d. 2
82.	1. Opaque projector 2. Grid method 3. Pantograph 4. Photograph enlarger/D.H.Projector.
83.	<ol> <li>Motivation</li> <li>Reminder</li> <li>Atmosphere/creative expression.</li> </ol>
•	1. Attract attention 2. Stimulate interest 3. Flexible in 4. Utilises demonstration 5. Improves communication 6. Dramatises concepts 7. Easily made and stored.
85.	Models are scaled representation of real things.
86.	A mockup is defined as a contrived or simulated three dimensional device which imitates certain aspects of the real things.
87.	It serves as a modified and abridged device which imitates certain aspects of the real thing.
88.	Keystone effect.

89. Horizontally.

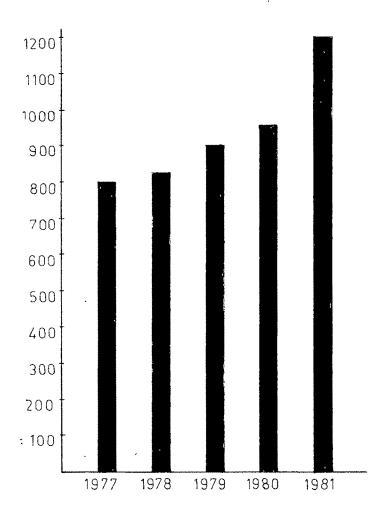
```
_COURSE IEST_ _ _ _ _ LEGIION_B_ _
90. Vertically.
91; a. Opaque projector.
   b: Overhead projector:
92; a: 8,9;10;13 b: 8,9;19;12;13 c: 4 d: 6;9,7
   B. 2,9,11 f. 5,9
                              g. 3,9 h. 7,9,11
               j: 1,9,11
    i: 1:9
93. a. 1.2:3:4 b. 1:4 c. 1.2:3.4 d. 5
    e. 2:3:6:8:9:10:11 f. 2:3.6 g 5 $
94: a: 1,2;3,4,7,10;11;12: b: 1,2,3,4;5,6;7,8,9,10,11,12
   0. 1,2,4,5,7,9,11;
95. a. Spirit duplicating b. Stencil duplicating.
    c. Photocopying.
96. a. Spirit (Fluid)
                          b. Spirit carbon
    c. Art paper (Master).
97. Disc
                             Tapes
98. 4.75
99.
     60 minutes
100. a. <u>One</u>
                          b. two
101.
     35 mm
     50 mm x 50 mm
102.
     36 mm x 24 mm
103.
104.
     2:.5
105.
      24 fps
106.
     Overhead projector
107.
      Carrel
108.
      Animated
109.
      Double ;
                              four
110.
      Carbon between master and backing.
```

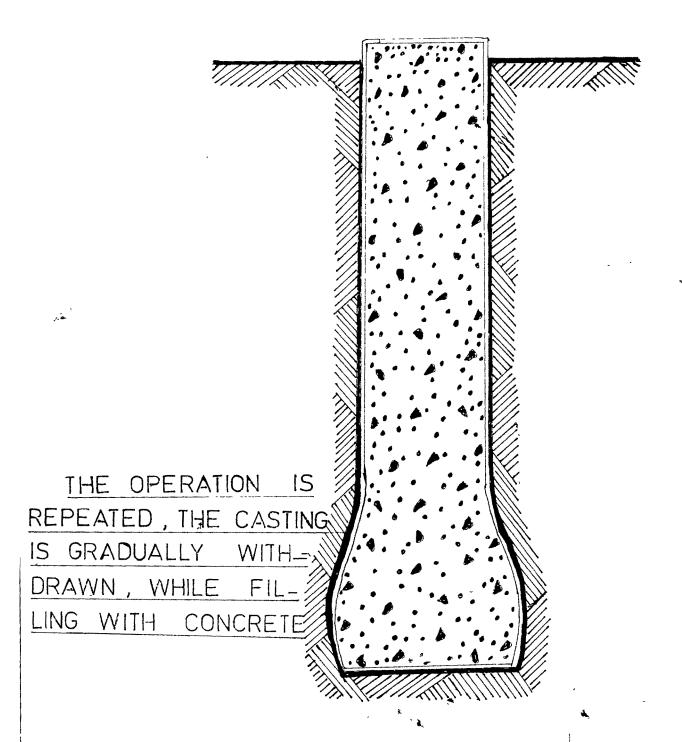
	306
COURSE TEST	KEY T SECTION B
111. a. 4 b. 1 c. 3	
f. 6 g. 11 h. 12	
k. 9 1. 4 m. 13 p. 15 q. 17 r. /16	
112. a. Feedboard raising knob c. Collecting tray	b. <u>Handle</u> d. <u>Ink selector</u>
e. Counter	f. Print height adjuster
g. Feeding unit	h. Back quide
i. Side guide	j. <u>Switch</u>
113. a. Mirror	b. reflector
c. projection lamp	d. heat filter
e. condenser lens	f. fresnel lens
g. objective lens	h. focussing knob
i. acetate roller knob	j. transparency guide pins
114. h. supply (feed) reel	k. supply (feed) sprocket
f. Pressure plate	m. shutter
g. claw q. exciter lamp	v. <u>pressure roller</u> p. <u>sound drum</u>
i. take up sprocket	e. take up reel
115. Leave enough margin - top, b	Party Carlo (and the Carlos of Carlo
copy is not cropped up durin	
116. A clear acetate sheet is pla	ced between blank stencil
and backing sheet while scan	
clear acetate, the transpare	ncy.
117. Carpeting	draperies
118. Amplifier	
119. Reproduction	
120. <u>H</u> play N	mike input L fast forward
I record 0	remote <u>J</u> rewind
B voltage selector D	volume <u>Q</u> eject
A AC inlet F	tone <u>T</u> condenser mike
S cassette component	U speaker K stop

. KEY

COURSE TEST SECTION C 123. A. 2 a, 1 b, 5 c, 3 d, 4 e, 6 f. B. 1 a, 2 b, 4 c, 3 d. C. 2 a, 1 b, 3 C. 125. <u>5</u> a, <u>3</u> b, <u>4</u> c, <u>1</u> d, <u>6</u> e, <u>7</u> f, <u>29</u> g, 14 h, 10 i, 9 j, 6 1, 13 m, 13 m, 12 n, 18 o, 15 p, 17 q, 21 r, 16 s, 19 t, 20 u, 26 v, 23 w, 28 x, 25 y, 27 Z, 24 Z<sub>1</sub>, 22 Z<sub>2</sub>, 2  $Z_3$ . 127. 5 a, 7 b, 1 c, 3 d, 6 e, 4 f, 2 g, <u>10</u> h, <u>9</u> i, <u>B</u> j. 130. A. <u>1</u> a, <u>5</u> b, <u>6</u> c, <u>3</u> d, <u>4</u> e, <u>2</u> f. B. 1 a, 2 b, 8 c, 6 d, 3 e, 4 f, 5 g, 7 h, 9 i, 10 j, 11 k, 12 l, 13 m. C. <u>1</u> a, 4 b, 5 c, 3 d, 7 e, 6 f, 2 g. <u>8</u> h. 134. A. 5 a, 4 b,  $\frac{7}{1}$  c,  $\frac{3}{1}$  d,  $\frac{8}{1}$  e,  $\frac{2}{1}$  f,  $\frac{6}{1}$  g, 1 h. B. 4 a, 3 b, 1 c, 6 d, 2 e, 5 f. C.  $\underline{6}$  a,  $\underline{4}$  b,  $\underline{1}$  \*,  $\underline{5}$  d,  $\underline{3}$  e,  $\underline{2}$  f. 0.7 a, 6 b, 10 c, 4 d, 8 e, 1 f. 2 g,h, <u>3</u> i, <u>9</u> j. <u>5</u>

BAR GRAPH





## AUDIO VISUAL EDUCATION

Module 1: Introduction to Instructional Design 310 DISTRIBUTION OF MARKS

		***************************************				DISTRIBUTION OF MARKS							
, U	INIT' '			UNIT 2	2		TINU	}	UNIT 4/5				
Qn.	Class	Marks	Qrl.	Class	Marks	Qn.	Class	Marks	Qn.	Class	Marks		
1	С	1/2	12	К	1/2	27	Н	1/2	30	С	1/2		
2	С	1/2	13	Н	1/2	28	К	1/2	34	К	1/2		
3	С	1/2	14	H	1/2	29	K	1/2	35	С	1/2		
4	К	1/2	15	Н	1/2	31	С	1/2	36	K	1/2		
5	K	1/2	16	Н	1/2	32	К	1/2	37	K	1/2		
6	С	1	17	К	1/2	33	С	1/2	39 ·	С	1/2		
7	K	1/2	18	С	1/2	38	Н	1/2	40	С	1/2		
- 8	K	1/2	19	Н	1/2	41	К	1	47	К	21/2		
9	Н	1/2	20	С	1/2	42	K	1	48	С	5½		
10	K	1/2	21	K	1/2	44	Н	1/2	49	K	4		
11	, C .	1/2	22	С	1/2	45	K	8	50	С	1		
			23	С	1/2	46	K	5	51、	С	1		
			24	С	1/2				52	С	1		
			25	С	1/2				53	С	1		
			26	С	1/2				54	С	1 .		
			43	С	4				55	С	1		
									56	С	1		
									57	С	1		
									58	С	1		
									59	С	1		
									60	С	1		
									61	H	3		
									62	H	1		
									63	K	1 1/2		
									64	Н	5 1/2		
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NON-PROJECTED VISUAL AIDS

Module 2

DISTRIBUTION OF MARKS

	UNIT 1 ·		1 -	į	TINL	2	. UNIT 3			UNIT 4			. UNIT 5		
Ī	Qn	Class	Marks	Qn	Class	Marks			Marks	Qn	Class	Marks	On	Class	Marks
Ī	1	K	1/2	12	С	1/2	16	С	1/2	32	С	1/2	36	С	1/2
Ī	2	K	1/2	13	С	1/2	17	K	1/2	33	С	1/2	37	C	1/2
	3	K	1/2	14	K	1/2	18	K	1/2	34	С	1/2,	38	С	1/2
	4	K	1/2	15	С	1/2	19	K	1/2	35	С	1/2	39	С	1/2
	_5_	K	1/2	7.9	K	21/2	20	K	1/2	87	K	2	40	С	1/2
	6	K	1/2	08	K	1.1/2	21	К	1/2	88	K	21/2	41	С	1/2
L	7	K	- 1/2	81	K	11/2	22	K	1/2	117	H <sub>S</sub>	5	42	K	1/2
	8	K	1/2	82	K	1/2	23	С	1/2			•	43	Ç	1/2
	9	K.	1/2	83	K	1	24	K	1/2				44	C.	1/2
-	10	K	1/2	84	C	1/2	25	K	1/2	<u> </u>			45	K	. 1/2
ľ	11	С	1/2	101	H <sub>S</sub>	4	26	K	1/2				46	K	1/2
ŀ	76	K	1 1/2	102	Η <sub>S</sub>	4	27	С	1/2				47	K	1/ <sub>2</sub>
ŀ	77	K	2 1/2	32			28	С	1/2				48	G	1/2
ŀ	78	K	2 1/2	5.5 T.			29	С	1/2				89	K	2 <sup>1</sup> / <sub>2</sub>
ŀ							30	С	1/2				90	K	
ŀ		<u> </u>					31	C	1/2				91	C	5.
ŀ			`				85	K	<u>2</u> 5				92	C K	21/2
ŀ		<u> </u>					86	H <sub>S</sub>	4				93	<del> </del>	3
ŀ		<del> </del> -					103 104	H <sub>S</sub>	4				118 118	H	3 2
ł		<del> </del>					105	H <sub>S</sub>	5		,		119	S	2
		+					106	H <sub>S</sub>	4					H <sub>S</sub>	4
.,		+					107	HS	4				121	H H	41/2
`							108	H <sub>S</sub>	5				121	S	3
١	<del></del>	<del> </del>					109	H <sub>S</sub>	5		,	******	122	HS	4
							110	H <sub>S</sub>	5				123	S	2 1/2
							111	HS	5			- A	123	Н	5
							112	H <sub>S</sub>	5				136	S	2 1/2
							113	H <sub>S</sub>	5				136	Н	5
							114	H <sub>S</sub>	5						
							115	H <sub>S</sub>	5						
							116	HS	5	7,					
****														<u> </u>	
	TOTAL 12 17 <sup>1</sup> 2								81			11 12			62
**	-						<u> </u>	**********					<u> </u>		
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1					4 (F	ligher Skill )	ment	al ab	nity)		•				
	S (Skill) : 79 (30%)												207		

MODULE - 2 (CONTD)

312

<del> </del>							J12 .							
UN	11 T	6	UI	NIT :	7	UI	8 TIV		UI	NIT	9			
Qn	Class	Marks	Qn	Class		QQn	Class	Marks	Qn	Class	Marks			
49	Č	1/2	5 5	K	1/2	, 59	K	1/2	68	С	1/2			
50	K	1/2	56	K	1/2	60	K	1/2	69	K	1/2			
51	С	1/2	57	С	1/2	61	С	1/2	70	К	1/2			
52	K	1/2	58	K	1/2	62	С	1/2	71	K	1/2			
53	С	1/2	96	K	1	63	С	. 1/2	72	K	1/2			
54	K	1/2	97	K	5	64	K	1/2	173	K	1/2			
94	K	6	125	S	2 1/2	65	K	1/2	74	K	1/2			
95	K	4	125	Н	5	66	С	1/2	75	С	1/2			
124	Н	4	126	S	21/2	6 <i>7</i>	K	1/2	99	K	21/2			
124	S	2	126	Н	5	98	К	2	100	К	21/2			
						ı1 2 <i>7</i>	S	2	135	Н	3			
						128	S	2	135	S	1			
						129	S	2						
					-	130	S	2						
						131	S	2						
						132	S	2						
						133	S	2						
					**************************************	134	S	21/2						
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				AND THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLU										
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10	[AL	19	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		23			23		-	13			
Sum	mary	(	C ( C (	nowled Ompre gher kill )	hensi	on.) I abil	ity )	25 79	(30 % (10% (30% (30%	)				

Module II Non-projected visual alds.

Allocation of marks

Exercise Number	Marks	Skill	H & M & A &	Marks
101,0102	2	a.Alignment of letters b.Smoothness of ink	a. spacing b. application	2
Lettering		<pre>c.Taping(use of tape</pre>		
103, D 4 106, 107	2.	a. Neatness b. Colour	a.appropriate choice (application)	0
Graph		<pre>c.General appearance d.Accuracy(including uniformity of lines)</pre>	b. Layout, planning (application)	3
105,108, 109,110, 111,112, 114,115,	21/2	a.Cleanliness b.Caption c.Uniformity of lines d.General appearance e.Colouring and shading	a.Appropriateness b.application b.Correct use of syml c.Readability	2½ ools
116. Charts		e-Corouring and shading		
117	22	a.Visual attraction b.Cleanliness c.Caption d.Colouring e.General appearance	a.appripriateness(1) b.Planning & design c.Message	21/2
118	2	a. Evenness of lines b. Closing points c. General appearance.	Method/accuracy of contents.	3
119.	2	a. Evenness of lines b. Cleanliness c. Closing points d. General appearance.	•	
120	2	a.Evenness of lines b.Cleanliness c.General appearance	<ul><li>a. Proportion</li><li>b. Appropriateness</li></ul>	2
121	2	b. Cleanliness c. Colour	a. Proportion b. Appropriateness c. Layout Planning	42
122.	2	d. General appearace a. Evenness b. Cleanliness c. Straightness	a.Choosing correct letter size b. Readability	2
123	2 <del>1</del>	d. General appearance. a.Title b. Sub-title c. Neatness d. Evenness e. General appearance	a. Content accuracy b. Emphasis c. Layout d. Readability	<i>5</i> ,

Exertese No.	Marks	Skill H.M.A. Marks
124	2	a.Display of pictures a. Appropriateness 4 b. Visual attraction b. Content accuracy c. Neatness d. Relationship of picture
125	2 <del>1</del>	a. Caption b. Illustration c. Neatness of cutouts d. Appeal d. Appeal d. Simplicity e. General appearance. e. Emphasis
126	2½	a. Caption b. Illustration c. Neatness d. Appropriateness b. Layout c. Content accuracy d. Appeal d. Simplicity e. General appearance. Emphasis
127	2	a. Evenness b. Cleanliness c. General appearance d. Inclusion of all points.
128	2	a. Evenness b. Cleanliness c. General appearance d. Inclusion of all points
129	2	a. Evenness b. Cleanliness c. General appearace d. Inclusion of all points
130	2	<ul> <li>a. Evenness</li> <li>b. Cleanliness</li> <li>c. General emphasis</li> <li>d. Inclusion of all points</li> </ul>
131	2	<ul> <li>a. Evenness</li> <li>b. Cleanliness</li> <li>c. General, appearance</li> <li>d. Inclusion of all points</li> </ul>
132	2	<ul> <li>a. Evenness</li> <li>b. Cleanliness</li> <li>c. General appearance</li> <li>d. Inclusion of all points</li> </ul>
133	2	a. Evenness b. Cleanliness c. General appearame d. Inclusion of all points

134.	2 <del>1</del>	a. Quality of performation (Spacing, Size) b. Method of chalk dusting c. Impressions(Chalk dust) d. Finish (Completion) e. Neatness(Clarity)	<b>,</b>
135	21/2	a. Letter shape b. Movement	a. Accuracy 3 b. Proporation
136	2 2	a. Neatness  b. Illustration c. Appearance d. Uniformity in writing e. Colouring	a. Planning & Layout 5 b. Legibility c. Accuracy d. Appropriation e. Selection of colour

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												_316		
1	UNIT 1 UNIT 2					U	NIT	3	UNIT 4			υ	NIT	5
Qn	Class	Marks	Qn	Class	Marks	Qn	Class	Marks	Qn	Class	Marks	Qn	Class	Marks
1	К	1/2	12	К	1/2	26	С	1/2	97	С	2	30	К	1/2
2	К	1/2	13	K	1/2	28	K	1/2	98	K	2	,31	K	1/2
3	С	1/2	14	K	1/2	29	K	1/2	99	Н	3	<i>9</i> 32	Κ	1/2
4	С	1/2	15	K	1/2	88	С	4	100	K	2	33	K	1/2
5	C	1/2	16	K	1/2	89	С	1/2	101	С	1/2	34	K	1/2
6	С	1/2	17	K	1/2	90	Н	1/2	102	K	2	35	K	1/2
7	K	1/2	18	K	1/2	91	Н	. 1/2	103	K	1	. 36	K	1/2
8	С	1/2	19	С	1/2	92	Н	1/2	104	K	2	37	K	1/2
10	С	1/2	20	С	1/2	93	Н	1/2	105	K	1	38	С	1/2
71	K	1	21	K	1/2	94	Н	<sup>1</sup> / <sub>2</sub>	132	С	5	107	K	1
72	Н	1	2.2	K	1/2	131	С	5	137	S	10	108	Н	2
73	· K	5	23	K	1/2	136	S	10				109	K	1
74	K -	5	24	K	1/2							110	K	1
75	K	2	25	С	1/2							114	С	11/2
76	K	2	27	K	1/2	**************************************						133	С	121/2
77	K	21/2	46	С	1/2							138	S	25
.113	С	21/2	78	К	1 1/2							139	S	5
128	Н	10	79	K	1 1/2							140	S	5
129	Н	7	80	Н	1									
130	Н	6	81	К	1 1/2									
			82	Н	1/2									
			83	С	1									
			84	С	1									
			85	С	1									·
			86	С	21/2	- White the same trade of						********		
	****		87	K	1 1/2									-A
			95	K	21/2			·						
			96	С	1/2									
		100.07000	115	Н	2			on Military) anno Arbeit (magana miyyiiyan						
TOT	[AL	45 1/2			26			231/2			301/2			501/2
					1									
S	um m a	ary	( 	C ( C H ( 1 S ( S	(nowle Compre Higher Skill	ehens mei	sion		es )	89	1 ( 1 2 ( 1 2 ) ( 1 2 ) ( 1 2 ) ( 1 2 )	25% 30% 15% 30%	) ) )	
			i	1 1	otal	)				293	1/2			1

### Module 3 1 PROJECTED AIDS

# DISTRIBUTION OF MARKS

UI	NIT	6	U	NIT	7	UI	NIT	8	U	NIT	9	U	NIT 1	0
<sup>'</sup> Qn	Class	Marks	Qn	Class	Marks	Qn	Class	Marks	Qn·	Class	Marks	Qn	Class	Marks
39	С	1/2	45	C	1/2	52	С	1/2	9	С	1/2	61	K	1/2
40	K	1/2	<u>4</u> 7	K	$\mathcal{Y}_2$	53	С	<i>y</i> <sub>2</sub>	58	С	1/2	62	K	1/2
41	К	1/ <sub>2</sub>	48	K	3/5	54	С	<i>y</i> <sub>2</sub>	59	С	1/2	63	К	1/2
42	K-	1/2	49	К	1/2	55	С	1/ <sub>2</sub>	60	С	1/22	64	К	1/2.
43	Κ·	<i>y</i> <sub>2</sub>	50	С	1/2	56	С	<i>y</i> <sub>2</sub>	123	K	4	65	K	1/2
44	К	1/2	51	К	J <sub>2</sub>	57	К	12	124	K	5	· 66	K	1/2
106	С	61/2	116	Н	1/2	117	K	1	125	Н	2	67	K	1/2
111	К	1 1/2	135	С	3 } <sup>2</sup>	118	C	21/2	126	H	5	68	К	1 <sub>2</sub> .
1.12	С	4	142	Н	7	119	K	5	127	С	5	69	С	$\gamma_2$
134	С	31/2				120	С	3	143	S	10	70	С	$\gamma_2$
141	S	7				121	C	4	144	S	10			l l
·						122	С	3	,					
,														
TOT	TOTAL 25 <sup>1</sup> 2 14					· · · · · · · · · · · · · · · · · · ·		2.2	,		43			5
									,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
S	, umm a	ary	( 1	C ( ( )	Knowl Compr Higher Skill) Total	ehe r me	nsior	n) abil	ıties	7 <b>8</b> ) 4 2 9	3 <sup>1</sup> 2 ( 18 <sup>1</sup> 2 ( 2 <sup>1</sup> 2 ( 39 (	25°/ 30°/ 15°/ 30°/	(o) (o) (o)	

### Module 4 DUPLICATING PROCESSES

DISTRIBUTION OF MARKS

l	INIT	1	U	NIT	2	U	NIT	3	U	NIT	4	U	NIT	5
Qn	Class	Marks	Qn	Class	Marks	Qn	Class	Marks	Qn	Class	Marks	Qn	Class	Marks
1	К	1/2	7	K	1/5	10	K.	1/2	12	K	1/2	14		1/2
2	С	1/2	8	K	1/2	11:	K	<i>y</i> <sub>2</sub>	13	С	1/2.	, 15		1/2
3	С	1/2	9	K.	1/2	22	Н	2	33	С	1	14		1/2
4	С	1/2	2 <b>5</b>	С	1/2	30	K	2	34	К	2	21		1 1/2
5	С	1/2	26	С	$2\nu_2$	31	K;	2	34	Н	11/2	38	С	2 1/2
6	С	1/2	27	С	6	32	C <sup>*</sup>	6	37	С	5	. 44	S	21/2
17	K	2	29	К	1/2	36	С	20	43	S	5			
18	K	1/2	35	С	71/2	41	S	1 <b>1</b>						
19	K	2/2	39	S	10	42	S	20						
20	Н	3 .	40	S	7/2									
23	С	1,2												^
24	С	1/2												
28	K	1/2												
														,
ТО	TAL	14/2			38	***************************************		-64	eller klassy o ski sportsy klassy skieler kan best		15 <sup>1</sup> 2			8
														_

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Summary K (Knowledge ) 21½ (15%)
C (Comprehension) 56 (40%)
H (Higher mental ability) 6½ (5%)
S (Skill) 56 (40%)
T (Total) 140
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rodate	ວ							919
` UN	I T	1	۷V	II T	2	UNIT 3		
Qn	Class	Marks	Qn	Class	Marks	Qn	Class	Marks
· A <sub>1</sub>	К	1/2	A3	K	1/2	A <sub>10</sub>	H	\\ \frac{1}{2}
A <sub>2</sub>	K	1/2	A4	K	1/2	A <sub>12</sub>	& K	1/2
A <sub>11</sub>	Н	1/2	Α5	Κ .	1/2.	A <sub>13</sub>	Н	1/2
В <sub>1</sub>	K	1 1/2	A 6	, K	1/ <sub>2</sub>	A <sub>14</sub>	K	1/2
B <sub>2</sub>	С	2	Α7	, K	1/2	A <sub>15</sub>	<u>H</u> ,	1/2
Вз	K	21/2	Αв	K	1/2	A16	· K	1/2
			Ag	С	1/2	A <sub>17</sub>	K	$\nu_2$
*			В4	K	2 1/2	A <sub>18</sub>	С	1/2
			B <sub>6</sub>	K ·	2	B 5	С	4
			B <sub>7</sub>	C-	1 1/2	B <sub>10</sub>	С	5
			В8	С	1/2	B <sub>17</sub>	С	1
			Вη	С	1	B18	С	1
			B <sub>17</sub>	К	1	B <sub>19</sub>	К	11/2
		3				B20	K	1
	-					B <sub>21</sub>	K	1
				,		Вүү	K	1/2
						B <sub>23</sub>	Н	2
				•		B 24	Н	2
						B <sub>25</sub>	Н	2
						C <sub>1/1</sub>	С	9
			F4-16-1-4-7-1			C <sub>2/1</sub>	S	18
	· -					C 2/2	S	20,
TOTAL	TOTAL 7 1/2		***************************************		12			72
								1

UN	IT 4		UN	IT S	ò	UNIT 6			
On	Class	Marks	Qn	Class	Marks	Qn	Class	Marks	
A19	К	1/2	A <sub>23</sub>	К	1/2	A 21	K	1/2	
A 20	С	1/2	A 24	К	1/2	A 22 \$	K	1/2	
			C 1/3	· C	10	A 25	Н	1/2	
						B 12	С	21/2	
						B 13	K	11/2	
						į́В 14	С	1	
						B 15	K	1	
						B 16	С	1	
						C 1/4	С	12	
						C 1/3	С	7	
						C 2,3		14	
			·			C 2/4		24	
TOTAL		1			. 11			651/2	

### Summary

K (Knowledge) : 
$$24\frac{1}{2}$$
 (15%)

H (Higher mental ability) 
$$8\frac{1}{2}$$
 (5%)

COURSE TEST 321														
MODULE 1		M	MODULE 2			MODULE 3			MODULE 4			MODULE 5		
Qn	Class	Marks	Qn	Class	Marks	Qn	Class	Marks	Qn	Class	Marks	Qn	Class	Marks
1	С	1/2	22	С	1/2	42	С	1/2	95	K	11/2	51	K	1/2
2	K	1/2	23	Н	1/2	43	K	1/2	96	K	11/2	60	K	1/2
3	K	1/2	24	С	1/2	44	С	1/2	110	С	1/2	97	K	1
4	К	1/2	2 5	С	1/2	45	С	1/2	111	С	5	98	K	1
5	Н	1/2	26	С	1/5	46	K	1/2	112	С	10	99	K	1/2
6	К	1/2	27	С	1/2	47	С	1/2	115	С	2	100	K	1
7	K	1/2	28	Н	1/2	48	K	1/2	116	С	2	109	K	1
8	Н	1/2	29	С	1/2	49	С	1/2	127	С	2 1/2	117	Н	1 .
9	Н	1/2	30	С	1/2	50	С	1/2	128	S	21/2	1 18	Н	1 .
10	14	1/2	3 1	С	1/2	52	Н	1/2	129	S	71/2	119	Н	1
11	H	1/2	32	K	1/2	53	Н	1/2	134	С	7	120	С	4
12	K	1/2	33	K	1/2	54	Н	1/2				130	С	7
1.3	С	<sup>1</sup> / <sub>2</sub>	34	С	1/2	55	Н	1/2				131	S	14
14	С	1/ <sub>2</sub>	35	С	1/2	56	Н	1/2						
15	С	1/2	36	K	1/2	58	K	1/2						
16	С	1/2	37	С	1/2	59	K	1/2				***		,
17	K	1/2	38	С	1/2	88	. C	1/2						
18	С	1/2	39	H	1/2	89	С	$y_2$						
19	K	1/2	40	K	1/2	90	С	.1/2				······································		
20	Н	1/2	41	С	1/2	91	K	1/2						
21	Н	1/2	78	K	21/2	92	Н	7	~					
57	Н	1/2	79	K	21/2	101	K	1/2						
61	С	4.,	80	K	21/2	102	К	1/2				ļ		
62	H	11/2	8.1	K	2	103	K	1/2						
TOTAL -			, politically and the same of the same						······		42			33
									·					

M	MODULE 1		W	ODUL	E 2	MODULE 3		MODULE 4		MODULE 5				
Qn	Class	Marks	Qn	Class	Marks	Qn	Class	Marks	Qn	Class	Marks	Qn	Class	Marks
63	К	8	82	К	2	104	K	1/2						1
64	K	5	83	K	11/2	105	K	1/2						
65	K	21/2	84	К	3½	106	K	1/2						-
66	С	5/2	85	К	1.	107	С	1/2						
6 <i>7</i>			86	К	1	113	С	10					ī,	
77	C	11	87	С	1	114	С	10			•			
			93	Н	51/2	123	С	31/2						
			94	Н	7	124	S	4		•				•
			108	К	1/2	125	С	7						
			121	SH	4	126	S	10						
			122	SH	6	132	S	10						
						133	S	3						
TOT	AL	481/2			5 2 1/2			78			42			33

### Summary

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K (Knowledge) : 54 (21%)
C (Comprehension) : 108 (43%)
H (Higher mental ability): 35½ (14%)
S (Skill) 56½ (22%)
T (TOTAL) 254
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