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Module III

Projected Aids

Unit 6

Overhead Projector

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Instructional Objectives:

1. Differentiate overhead projector from other types of projectors.
2. Identify the parts of an overhead projector.
3. Name the part of the overhead projector which helps to adjust the image on the screen.
4. State the maximum and minimum sizes of objects/ transparencies that can be projected with an overhead projector.
5. Demonstrate how transparencies are located on the projection stage.
6. Indicate the kinds or types of objects that can be projected using an overhead projector.
7. Determine the projector distance from the screen to set up the overhead projector.
8. State the important aspects to be looked into when replacing a lamp in an overhead projector.
9. Write the steps to be followed for projecting with an overhead projector, in the order of operations.
10. Operate an overhead projector and project transparencies and non-transparent objects.

## AUDIO VISUAL EDUCATION

## WORK BOOK

## Module III

## Projected Aids.

## Unit 6

## Overhead projector

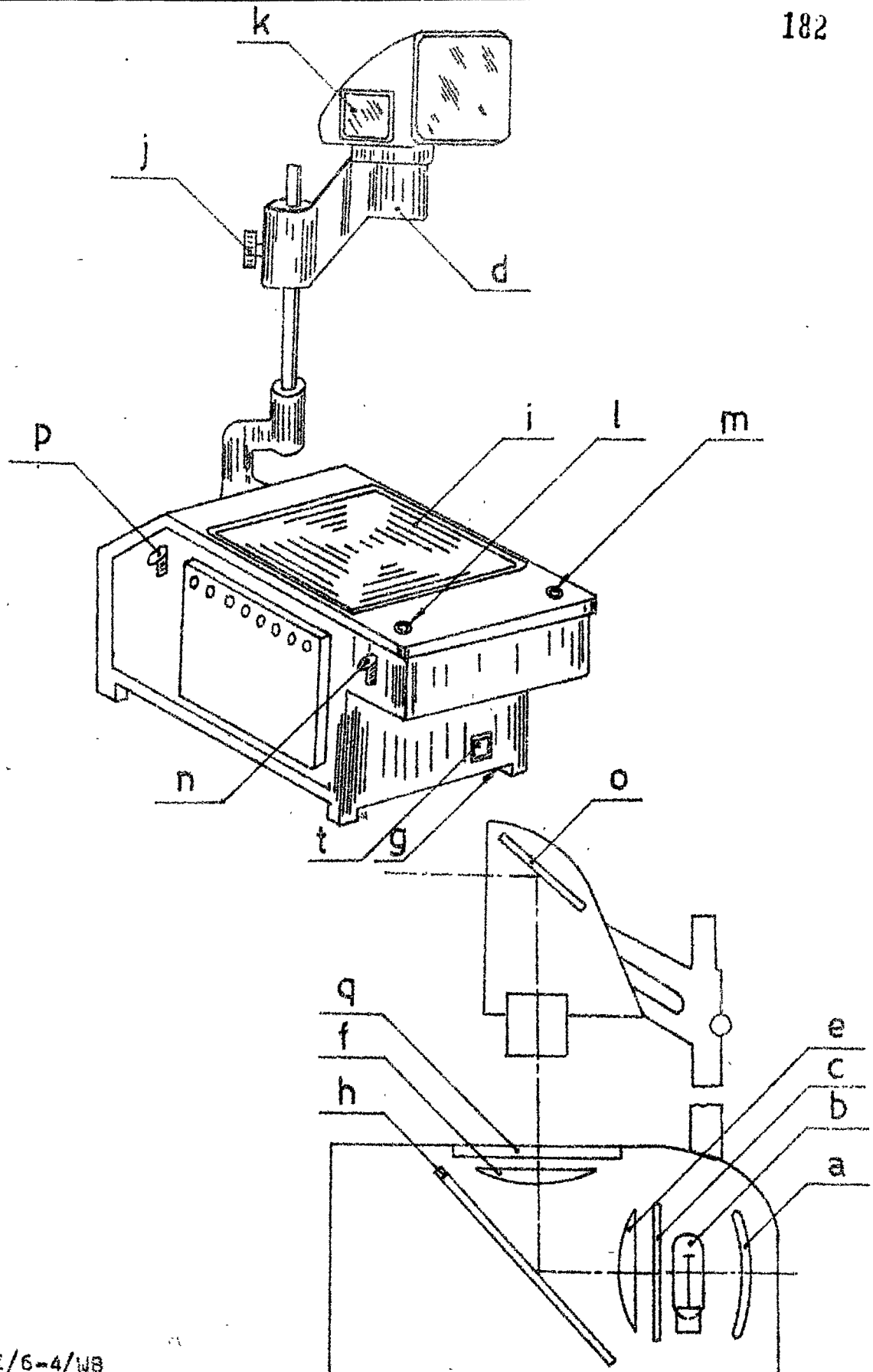
1. The main advantage of overhead projector over other projector is that :
  - a. the overhead projector can be used in a fully illuminated room.
  - b. the overhead transparencies can be stored in a small space.
  - c. the overhead projector is the smallest projector and hence easily moved from one classroom to other.
  - d. the overhead projector is the cheapest of all the projectors.
2. Which one of the following provides you the facility to write on the projectual and thus use it as a substitute for chalkboard ?
  - a. filmstrip
  - b. slide
  - c. 16 mm motion picture
  - d. overhead transparency
3. Which of the following prepared projectual allow you to use the technique of overlay, masking and progressive disclosure ?
  - a. filmstrip
  - b. slide
  - c. 16 mm motion picture
  - d. overhead transparency

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4. Which of the following projectuals can be projected with an overhead projector ?
- Opaque flat materials 8" x 10"
  - Opaque objects of size 12" x 15" x 10"
  - Transparent flat materials 10" x 18"
  - Transparent objects that are less than 10" x 10" in size.
5. Mark against the names given in the picture on last page, the alphabets corresponding to the names given below.
- |                          |                                   |
|--------------------------|-----------------------------------|
| _____ 1. mirror          | _____ 7. fresnel lens             |
| _____ 2. reflector       | _____ 8. focussing knob.          |
| _____ 3. condenser lens  | _____ 9. front surface mirror     |
| _____ 4. heat filter     | _____ 10. acetate roller knob     |
| _____ 5. projection bulb | _____ 11. transparency guide pins |
| _____ 6. objective lens  | _____ 12. projection mirror.      |
6. State, how are the position of the image on the screen adjusted and centred ?
- \_\_\_\_\_
  - \_\_\_\_\_
  - \_\_\_\_\_
7. What are the minimum and maximum size of the transparent pictures that could be projected on an O.H.P ?
- Maximum size \_\_\_\_\_ mm x \_\_\_\_\_ mm.
  - Minimum size \_\_\_\_\_ mm x \_\_\_\_\_ mm.
8. To steady the transparency sheet on the lens surface from moving away, we use:
- acetate roller knob.
  - focussing knob
  - guide pins in front
  - projection mirror.

9. Which one of the following will give a projected image in silhouette
- a. any coloured transparency
  - b. any black and white transparency
  - c. transparent objects
  - d. non transparent objects
10. Which of the following is not necessary to be considered when you want to replace lamps.
- a. voltage
  - b. lamp contact
  - c. amperage
  - d. condenser lens

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MODULE - III;

Projected Aids,

Time: 3 hrs.

Unit - 6;

Overhead Projector

Practical Exercise No.38 : Operation of Overhead Projector.

A. PROBLEM

- |  |                    |
|--|--------------------|
| a) Operation of Overhead projector                               |                    |
| b) Showing transparency with overlays                            |                    |
| c) Writing on transparency scroll.                               |                    |
| d) Using progressive disclosure technique<br>show. transparency; |                    |
|  |                    |
| a) Setting up  |                    |
| b) Operation   | Plan as per        |
| 1. Showing overlays  | performance check  |
| 2. Writing on transparencies                                     | list, Total time   |
| 3. Progressive disclosure<br>technique;                          | allowed for        |
|  | presentation three |
| c) Shut down and putting away                                    | minutes,           |

B. EQUIPMENT & MATERIALS

1. O.H. Projector
2. Transparent acetate sheet
3. Transparency with overlays
4. Transparency for progressive disclosure
5. Transparency scroll
6. O.H.T. Pencil, felt pen, duster to erase/  
clean, pointer.

C. GRADING POINTS

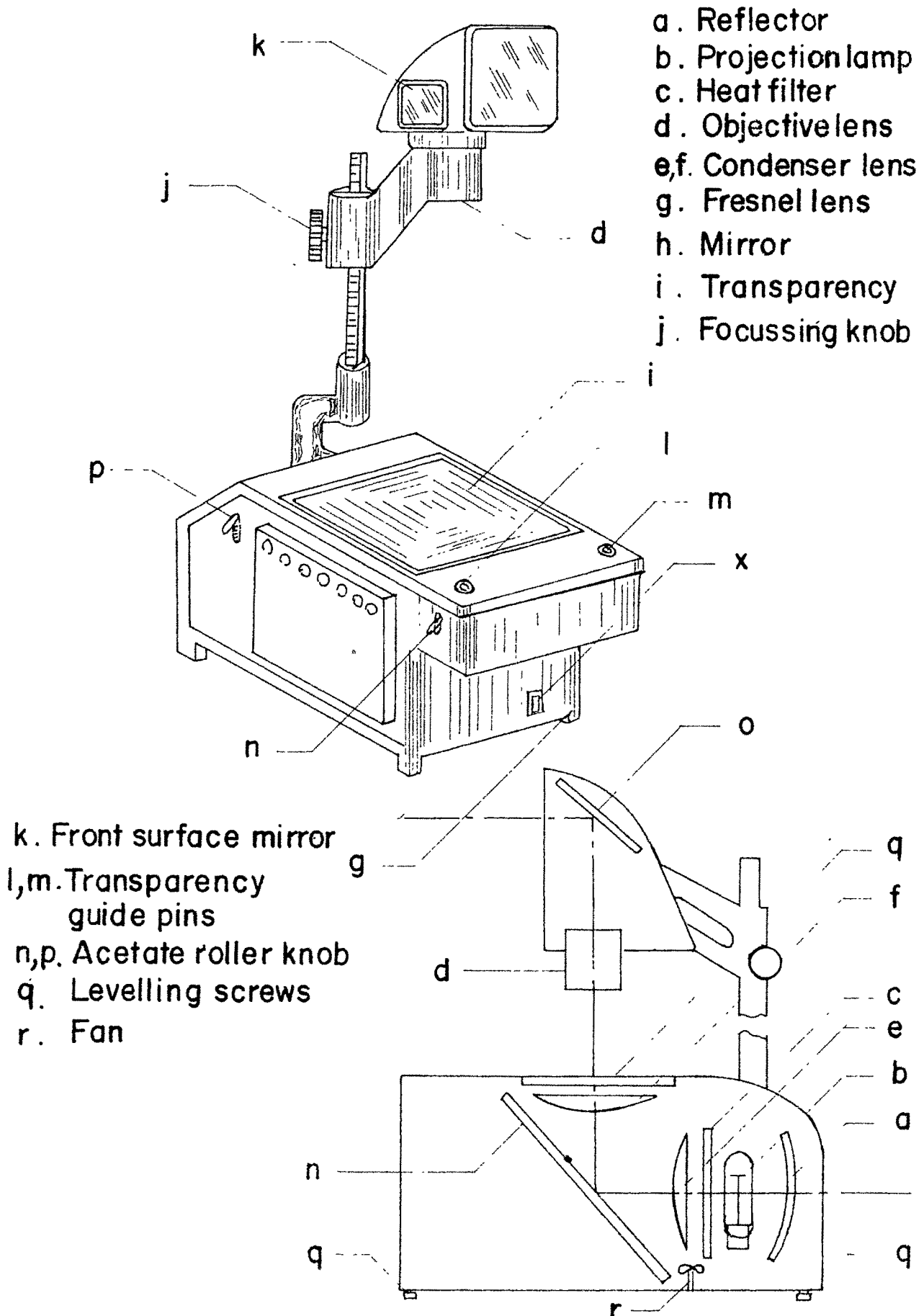
1. Operation of projector as per check list.
2. Showing overlays
3. Showing by progressive disclosure method;
4. Transparency - writing missing points.  
(Up to three trials are allowed for practice)

D. Deadline for completion:

June 1<sup>st</sup>.

# OVER HEAD PROJECTOR

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AUDIO VISUAL EDUCATION

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MODULE - III.      Projected AidsUnit - 6.          Overhead Projector

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Practical Exercise No.38 : Performance Check List for  
Operating Overhead Projector.

A.    SETTING UP

- 1) Set up projector & screen
- 2) Connect power cord & switch on
- 3) Put test transparency, on projection stage.
- 4) Adjust top mirror
- 5) Adjust image size
- 6) Focus

B.    OPERATIONa) Showing Overlays.

1. Replace test transparency with a set of O.H. transparency with overlays.
2. Manipulate overlays
3. Use pointer

b) Use of progressive disclosure technique.

1. Replace with a transparency having many items.
2. Use masks and show one by one.

c) Writing on a transparency Scroll

1. Attach Scroll
2. Use pencil or felt pen and write a sentence.

C.    PUTTING AWAY -

1. Switch off, and bring to normal position all parts.
2. Pack up power cords
3. Remove and pack up transparency.



Module III

PROJECTED AIDS

Unit 6

Overhead Projector

(38)

The checklist given under are not in a sequence. Put numbers 1, 2, 3, ... against each step in the correct sequence, for A, B and C.

## A. SETTING UP

- \_\_\_ a. Connect the power cord and switch.
- \_\_\_ b. Set up the projector cord and switch on.
- \_\_\_ c. Adjust the image size.
- \_\_\_ d. Put the test transparency
- \_\_\_ e. Adjust the top mirror
- \_\_\_ f. focus.

## B. OPERATION

- \_\_\_ a. Replace test transparency with a set of OH transparency with overlays and manipulate overlays.
- \_\_\_ b. Replace with a transparency containing a number of items for progressive disclosure.
- \_\_\_ c. Using pencil write on the scroll.
- \_\_\_ d. Attach the scroll

## C. PUTTING AWAY

- \_\_\_ a. Pack up the power cords.
- \_\_\_ b. switch off and bring to the normal position the projector and parts.
- \_\_\_ c. Remove and pack up the transparency.

## AUDIO VISUAL EDUCATION

Module III	Projected Aids	Key to Pr. Ex.
Unit 6	Overhead projector	(38)

The check list given under are not in a sequence. Put numbers 1,2,3 .... against each step in the correct sequence for A, B, 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.
- 3 j. Attach 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.

## AUDIO VISUAL EDUCATION

## CRITERION TEST

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Module III

Projected Aids.

Unit 6

Overhead projector  
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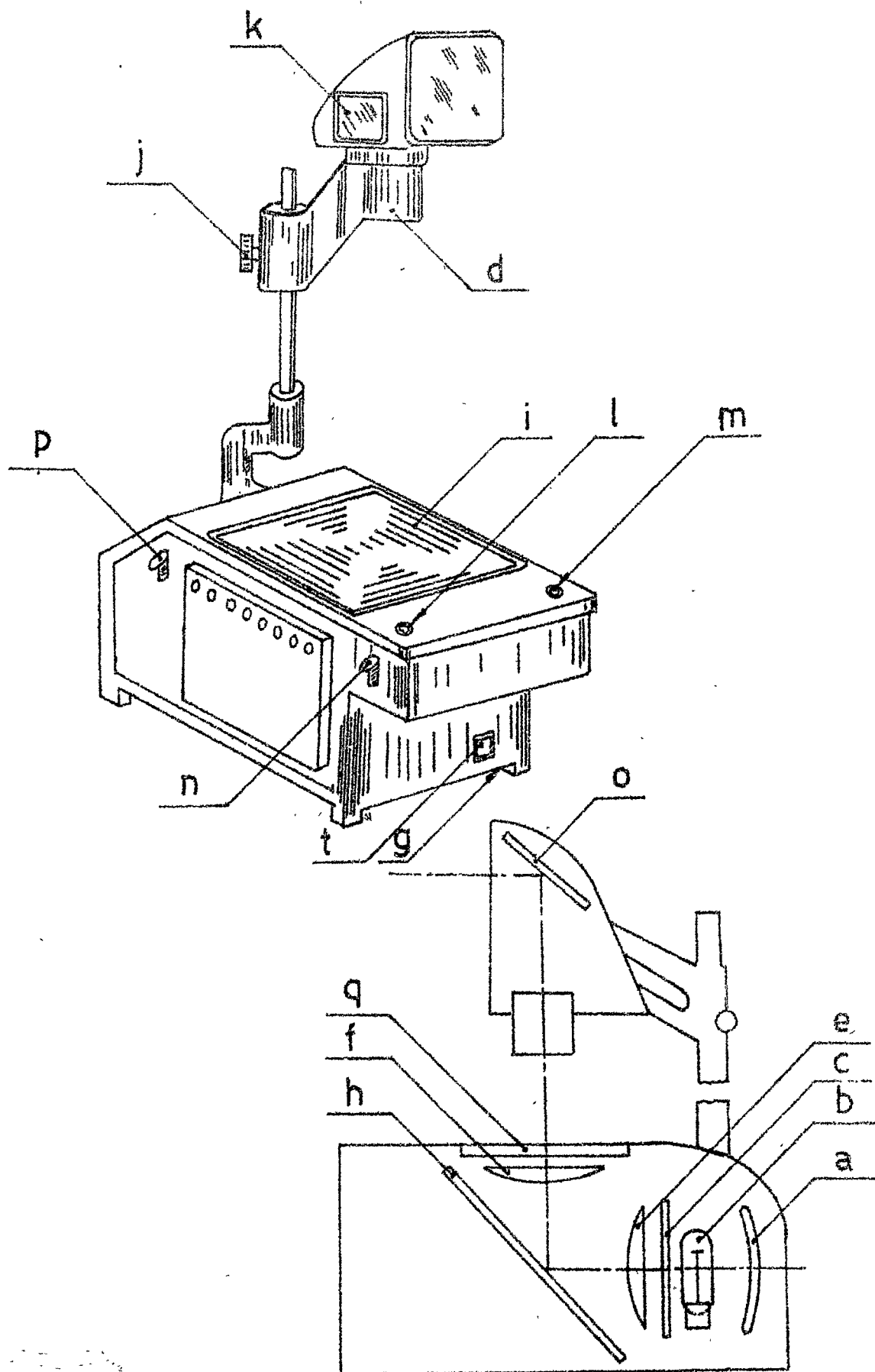
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  - c. the overhead projector is the smallest projector and hence easily moved from one classroom to other.
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2. Which one of the following provides you the facility to write on the projectual and thus use it as a substitute for chalkboard ?
  - a. filmstrip
  - b. slide
  - c. 16 mm motion picture
  - d. overhead transparency
3. Which of the following prepared projectual allow you to use the technique of overlay, masking and progressive disclosure ?
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M III/6-1/CT

4. Which of the following projectuals can be projected with an overhead projector ?
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| _____ 3. condenser lens  | _____ 9. front surface mirror     |
| _____ 4. heat filter     | _____ 10. acetate roller knob     |
| _____ 5. projection bulb | _____ 11. transparency guide pins |
| _____ 6. objective lens  | _____ 12. projection mirror       |
6. State, how are the position of the image on the screen adjusted and centred ?
- \_\_\_\_\_
  - \_\_\_\_\_
  - \_\_\_\_\_
7. What are the minimum and maximum size of the transparent pictures that could be projected on an O.H.P ?
- Maximum size \_\_\_\_\_ mm x \_\_\_\_\_ mm.
  - Minimum size \_\_\_\_\_ mm x \_\_\_\_\_ mm.
8. To steady the transparency sheet on the lens surface from moving away, we use:
- acetate roller knob.
  - focussing knob
  - guide pins in front
  - projection mirror.

9. Which one of the following will give a projected image in silhouette
- a. any coloured transparency
  - b. any black and white transparency
  - c. transparent objects
  - d. non transparent objects
10. Which of the following is not necessary to be considered when you want to replace lamps.
- a. voltage
  - b. lamp contact
  - c. amperage
  - d. condenser lens

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## AUDIO VISUAL EDUCATION

KEY TO  
CRITERION TEST-----  
Module III

Projected Aids

Unit 6

Overhead Projector  
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1. The main advantage of overhead projector over other projector is that:
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  - ☐ c. 16 mm motion picture
  - ☒ d. Overhead transparency.
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  - ☐ b. slide
  - ☐ c. 16 mm motion picture
  - ☒ d. overhead transparency

M III/6-1/KCT

4. Which one of the following projectuals can be projected with an overhead projector ?

- ☐ a. Opaque flat materials 8" x 10"
- ☐ b. Opaque objects of size 12" x 15" x 10"
- ☐ c. transparent flat materials 10" x 18"
- ☒ d. transparent objects that are less than 10" x 10" in size.

5. Mark against the names given in the picture on last page the alphabets corresponding to the names given below.

- |                              |  |
|------------------------------|--|
| <u>h</u> 1. mirror           | <u>g</u> 7. fresnel lens.              |
| <u>a</u> 2. reflector        | <u>j</u> 8. focussing knob.            |
| <u>e,f</u> 3. condenser lens | <u>k</u> 9. front surface mirror       |
| <u>c</u> 4. heat filter      | <u>n,p</u> 10. acetate roller knob.    |
| <u>b</u> 5. projection bulb  | <u>l,m</u> 11. transparency guide pins |
| <u>d</u> 6. objective lens   | <u>o</u> 12. projection mirror.        |

6. State how are the position of the image on the screen adjusted or centered ?

- a. operating the mirror adjusting knob-raise or lower.
- b. adjusting foot screws of front legs-raise or lower.
- c. tilting the head of top mirror assembly.

7. What are the minimum and maximum size of the transparent pictures that could be projected on an O.H.P ?

- a. Maximum size 250 mm x 250 mm
- b. Minimum size 100 mm x 100 mm

8. To steady the transparency sheet on the lens surface from moving away, we use:

- ☐ a. acetate roller knob.
- ☐ b. focusing knob.
- ☒ c. guide pins in front
- ☐ d. projection mirror

9. Which one of the following will give a projected image in silhouette.

- ☐ a. any coloured transparency
- ☐ b. any black and white transparency
- ☐ c. transparent objects
- ☒ d. non transparent objects



10. Which of the following is not necessary to be considered when you want to replace lamps.

- ☐ a. voltage
- ☐ b. lamp contact
- ☐ c. amperage
- ☒ d. condenser lens.

M III/6-3/KCT