

A P P E N D I X C

1. ORIGINAL VERSION OF THE TESTS (1 - 52)
2. FINAL VERSION OF THE TEST-BATTERY (1 - 25)

(For research purpose only)

Sub-test: I

Name:

Age:

Sex: Male/Female

Faculty of Institution:

Date:

Instruction:

Here is a list of activities arranged in 20 groups. Your task is to select one activity from each group according to your choice. If you find in a group more than one activities which you prefer to do, mark only that item which you like the most. Similarly, if you do not find any of the activities listed in a group upto your choice, you may add one in the column "Any other...". Please see that you go through each item before making a final choice.

(1) At my leisure time I would like to:

- | | |
|--|---------|
| (a) draw and paint a picture, | () |
| (b) keep family accounts, | () |
| (c) work in my garden, | () |
| (d) mend small machines i.e.cycle, watch
or sewing machine, | () |
| (e) read novels, | () |

(f) try some chemistry experiments at home, ()

(g) Any other.....

(2) If I happen to be in the library for some time I would like to:

(a) read scientific journals, ()

(b) read some literary supplement, ()

(c) read **souvenir** volumes in fine arts, ()

(d) read annual report on industrial development, ()

(e) study National Budget, ()

(f) read farmers' bulletins, ()

(g) Any other.....

(3) During the short holidays I would like to:

(a) collect historical facts of a particular place, ()

(b) collect specimens of arts, ()

(c) prepare science model for science exhibition, ()

(d) collect seeds, ()

(e) handling small tools, ()

(f) join a co-operative scheme for making some profit, ()

(g) Any other... ()

(4) While going on excursion somewhere I would like to:

(a) take photographs of the landscape, ()

- (b) study the soil or rocks, ()
- (c) keep accurate accounts of money received and spent on excursion, ()
- (d) collect the specimen of small plants typical in that area, ()
- (e) collecting historical facts of the place as well as prevailing myths among people, ()
- (f) study the technological development of the place, ()
- (g) Any other.....

(5) If I get opportunity to travel I would like to see:

- (a) rock-cut temples, ()
- (b) well known universities of India, ()
- (c) Bhilai Steel Plant, ()
- (d) Trombay-Apsara reactor, ()
- (e) agricultural institute, ()
- (f) Bombay export market, ()
- (g) Any other.....

(6) During a free period in college I would like to spend the time in:

- (a) class discussion, ()
- (b) making observations in the laboratory, ()
- (c) handling machines in the workshop, ()
- (d) looking after the college gardens, ()
- (e) drawing pictures for the college magazine, ()

(f) collecting funds for the students' co-operative store, ()

(g) Any other.....

(7) I would like to see the exhibition of:

(a) fine arts, ()

(b) technical progress, ()

(c) science, ()

(d) agriculture, ()

(e) books and journals, ()

(f) commerce and trades, ()

(g) Any other..... ()

(8) If I get spare time I would like to:

(a) play on a musical instrument, ()

(b) take care of plants in my garden, ()

(c) read about new atomic research, ()

(d) learn how to estimate costs and profits in a business, ()

(e) read about the construction of the radio, transistor etc, ()

(f) read articles on education or philosophy, ()

(g) Any other.....

(9) I would like to spend money for:

(a) buying mechano, ()

- (b) buying paints and brushes, ()
- (c) buying manures and seeds, ()
- (d) buying things for sale at a higher price, ()
- (e) buying souvenirs of different countries, ()
- (f) buying equipments for making small experiments at home, ()
- (g) Any other.....

(10) I would like to make a friendship with a:

- (a) painter, ()
- (b) technician, ()
- (c) businessman, ()
- (d) farmer, ()
- (e) journalist, ()
- (f) scientist, ()
- (g) Any other.....

(11) I like subject teachers of:

- (a) History/Gujarati or English, ()
- (b) art, craft or music, ()
- (c) Science, ()
- (d) commercial geography or accounts, ()
- (e) mechanics, ()
- (f) soil chemistry/agriculture, ()
- (g) Any other.....

(12) I would like to be:

- (a) an engineer, ()
- (b) an artist/musician, ()
- (c) an editor/lecturer of humanities, ()
- (d) chemist, ()
- (e) an agriculturist, ()
- (f) a bank manager or businessman, ()
- (g) Any other.....

(13) I read newspaper for going through:

- (a) music lessons and articles by artists, ()
- (b) literary section, ()
- (c) news on technical advance, ()
- (d) trade news, ()
- (e) news on scientific inventions, ()
- (f) news on agricultural products etc., ()
- (g) Any other.....

(14) I prefer visit to:

- (a) a nice farm, ()
- (b) an art gallery, ()
- (c) a commercial exhibition, ()
- (d) a national library, ()
- (e) a science laboratory, ()

- (f) a machine tool factory, ()
 (g) Any other.....

(15) I would like:

- (a) playing any musical instrument, ()
 (b) gardening, ()
 (c) building up home library, ()
 (d) making model; airplanes, transistor,
 furniture, etc. ()
 (e) experimenting with chemicals, combin-
 ing different materials to see what
 will be formed, ()
 (f) collecting information regarding
 business to know rules and
 regulations of income-tax, ()
 (g) Any other.....

(16) In my opinion, most useful people are:

- (a) Sculptors, ()
 (b) writers, ()
 (c) technicians, ()
 (d) businessmen, ()
 (e) Farmers, ()
 (f) inventors, ()
 (g) Any other.....

(17) I enjoy radio programmes on:

- (a) classical music, ()
- (b) new poems, ()
- (c) technical topics, ()
- (d) meeting to the scientists, ()
- (e) prices of market goods, ()
- (f) cultivation process on how to keep
the flowers green for a long time, ()
- (g) Any other.....

(18) I would like to attend:

- (a) musical evening, ()
- (b) debate and discussions, ()
- (c) agricultural fair, ()
- (d) science exhibition, ()
- (e) technical and industrial fair, ()
- (f) auction mart, ()
- (g) Any other.....

(19) I would like to write:

- (a) commentary on films, ()
- (b) paper on space research, ()
- (c) views on language problem, ()
- (d) essay on price freeze, ()
- (e) compilation of information on new
type of diesel engine, ()

(f) article on use of fertilizers
in different soils, ()

(g) Any other.....

(20) I would like to select books on:

(a) literature, ()

(b) scientific inventions, ()

(c) economic problems, ()

(d) modern art, ()

(e) farming, ()

(f) construction and uses of tools, ()

(g) Any other.....

Sub-Test: II

Name:

Age:

Sex: Male/Female

Faculty/Institution:

Date:

Instruction:

Here you are provided with different pairs of news items. First you read the headings of each pair and place a tickmark (✓) against the item which you like more in every pair. You are also required to go through the items you choose everytime and underline some of the important terms.

(1) Music Academy in Goa Urged

The Goan Patriots through an organization of Goan freedom fighters urged Goa Government to establish an academy of music and art on the line of Shantiniketan to teach both eastern and western music styles. The academy would definitely promote art and encourage artistic pursuits.

Machines which Protect Earth

An anti-erosion machine, developed by some engineers does simultaneously two jobs. The machine is designed for planting trees on steep slopes. It digs trenches and leaves behind small mounds of earth and furrows in which water from melting snow and rain collects. Such an anti-erosion system helps to fix the surface layer.

(2) Lenin Peace Prize for Niemoellier

Pastor Martin Niemoellier the controversial West~~ern~~ German pacifist, was today presented the Lenin Peace Prize.

Prof. Dmitri Skobeltsyn of the Soviet Academy of Science who gave him the award, declared that Pastor Niemoellier had worked for peace in all parts of the world.

Award for Scientific Pursuit

Mr. H. N. Sethna, director of the Bhabha Atomic Research Centre, has been chosen by the University of Michigan to receive the special honour for contribution to science and scientific knowledge. The award has been specially created to honour the brilliant university alumni.

(3) The Autocashier - A New Innovation

An ingenious device invented by P.G. Bhude of the Bombay Port Trust now makes payments in loose coins automatically. All you have to do is just to press a knob on the key board. For instance, if you have to pay 95 paise, press the push-button marked '95' and you have the loose change.

Socialist Forum adopts an Intensive Plan for Social Progress

A convention of the Congress Socialist Forum here today adopted a ten-point plan for revitalising the Congress to enable it to play a "historically adequate role". The ultimate purpose is to bring a social reform through a series of activities.

(4) Bismilla Khan to Give Concert in Canada and U. S.

Bismilla Khan the eminent Shahnai artist left this morning for Montreal Canada, to participate in the India week celebrations during Expo-67, to be held between June 28 and July 4. The eight-member troupe is scheduled to give commercial concerts in the U.S.A. after their Montreal programme.

Gujarat Textile Crisis

Gujarat's Minister for Industries, Mr. Jashwant Mehta, has sent an SOS to the Union Government asking it to take immediate steps to reopen seven textile mills in the State. Some other mills were on the verge of closing down, the message said. The Minister has suggested that the Centre should set up the proposed Textile Corporation immediately.

(5) Award of 'Krishi Pandit'

Shri Pundlik Maharu Rajput of Sawalde, District Dhulia, Maharashtra has been declared the 1st prize winner in the first All India Crop Competition in Wheat.

He obtained a yield of 2679.48 Kgs. per acre.

"The prize consists of a cash award of Rs.3,000/- and the certificate of 'Krishi Pandit'.

The crop competition in other rabi crops could not be conducted due to lack of minimum prescribed number of participating States.

A New Chemical for Undesirable Fish

Nearly 20 years of research has culminated in a new chemical for ridding lakes, ponds and streams of undesirable fish. The chemical is called antimycin meaning anti-fungus and is toxic to certain kinds of fish in concentrations so dilute as to have almost no effect on other animal life. It is apparently absorbed by the gills and interferes with respiration.

(6) An Exhibition on Technical Progress in Industry

A total of 1,045 foreign exhibitors from 33 countries will participate in the Ninth International Fair in Bonn (September 10-19) this year.

Division of exhibits are a characteristic feature of the Fair. This gives experts a better chance to review the technical standard of products exhibited by various producers.

Tributes to Artists

A joint meeting organized by the Federation of Art Institutions the Bombay Art Society and the Jehangir Art Gallery in Bombay on Monday mourned the death of Mr. V.P. Karmarkar, the noted sculptor of Maharashtra, and Mr. J.A. Lalakaka, a well-known portrait painter.

(7) Gujarat Cultural Group

A cultural group sponsored by the Gujarat Sangeet Nritya Natya Academy is currently touring the border areas of Kashmir.

The party has been arranging programmes for the entertainment of Jawans from August 23.

Encouragement to Cultivators

The State Government has issued orders for grant of loans from the Central Co-operative Bank to cultivators who are members of co-operative societies. The loan will be given from the grants placed at the disposal of the collectors for purchase of inputs like fertilizers and fertilizer mixture.

(8) Special Plan for Farming in U.P.

The Uttar Pradesh Government has drawn up a special agricultural plan for the coming kharif season for Mirzapur District where two successive years of drought have ruined crops. The plan envisages the supply of seeds under taggavi loans to farmers having below five acres. About Rs.15 lakhs has been sanctioned.

Inter-State Living

Five students-four boys and a girl - from north-east India have arrived here in Gujarat as part of the Inter-State living programme of the Students Brotherhood. They will stay here for a fortnight. The scheme is likely to contribute to the cultural and emotional integration.

(9) Art Exhibition on Germany

A photographic exhibition, "German cities-yesterday and today", organized by the Indo-German Cultural Society at the Artists' Centre, Radio House, Rampart Row, Bombay, on Monday was opened by Maharashtra's Urban Development Minister, P. G. Kher.

Language Controversy

The language controversy found its echo at its morning's session of the All India Congress Committee.

A few minutes after Mr. G. L. Nanda began his speech in Hindi on the resolution on the need for a common language.

(10) Drive to Boost Exports urged by U. N. Team

India should project itself in the world market as a rapidly developing manufacturing nation and launch an aggressive drive to sell its products.

This is one of the recommendations made by a U.N. export promotion delegation which visited India early this year to make a special study of the export potentialities of this country.

No More Water Scarcity now-Scientist's Dream

Scientists have already succeeded in extracting from the vast salty water of the oceans water that can quench the thirst of over-populated cities and power that can run industries. This is a definite contribution of Science towards meeting a basic problem.

(11) Credit Conditions Turn Favourable

The Bombay short-term money market was easy last week.

Funds seemed to be returned to banks from the mofussil centres. Consequently, the supply position was altogether favourable and borrowers were able to obtain their requirements at lower rates. The turnover of funds was of a fair size.

Competition for Children's Literature

Entries for the Union Education Ministry's competition for children's literature published after January 1, 1965 have been invited for award of 15 prizes of Rs.1,000 for each book or manuscript - two in Hindi and one each in other Indian language.

(12) Ships by Computer

There seems to be virtually no limit to the versatility of the computer. Its most recent use is in ship-building. Scientists have now devised a computer which can help to build "perfect ships".

If a shipping company desires a particular type of vessel, the specifications, operating costs, speed, the kind of cargo the ship will carry, etc. are fed into the computer. Within a few hours the computer has a "reply" ready.

New Sources of Unlimited Energy

Scientists in the U.S. are seeking to develop an atomic power plant that produces more fuel than it uses. Called a breeder reactor, it holds promise of providing man with vast quantities of electricity at low cost.

At first glance the breeder reactor seems to reverse the law of nature. It provides simply a very efficient way of using fuel over a long period. This type of reactor is able to use only one to two per cent of the latent energy in the uranium fuel.

(13) Lineless Telephone

An experimental lineless telephone has been developed in the United States. A battery-operated portable unit connects with the telephone net-work via radio link to a fixed station, which, in turn, is connected to a telephone line or extension line

Unlike push-to-talk walkie-talkies, the cordless telephone provides simultaneous two-way conversations, as well as supervision (connecting and disconnecting), dialing and ringing. Designed to be carried on a belt or in an overcoat pocket, it now has a range of 100 to 1500 feet from the fixed station, depending upon the radio frequency environment.

(14) Banks Asked to Cut Seasonal Advances

The Reserve Bank of India has asked commercial banks to reduce substantially their advances against seasonal commodities in the current slack season in a phased manner, in view of the continuing pressure on prices.

Gujarat Raises Sales Tax

Mr. Mehta announced that the inter-state and intra-state Sales Tax would be raised from two to three per cent, following the enhancement in the rate of Central Sales Tax from 2 to 3 per cent. The rates of tax on coal, iron, steel and oilseeds had also been raised from 2 to 3 per cent.

The multi-point sales tax would be raised from 2½ to 3 per cent as in certain other neighbouring states.

All these enhanced sales taxes were estimated to bring in a revenue of Rs.3.25 crores in the current year.

Hybrid Cultivation

In a drive to augment food production, over 585,000 acres will be brought under hybrid cultivation this year.

Of this, bajri will be cultivated in 400,000 acres, maize in 19,500 acres, paddy in 160,000 acres and jowar in 6,000 acres.

Last year, bajri was cultivated in 68,349 acres, maize in 8,290 acres, paddy in 900 acres and jowar in 1,152 acres.

(15) Seed Distributed

Hybrid jowar seeds and fertilizers sufficient for cultivation on 15,000 acres of land have been distributed in Wardha District. Further distribution is in progress. It was stated at a meeting of divisional and district officers here yesterday that the effective distribution of seeds would promote agriculture in the country.

Ground Station for Satellite Communication

Work will start soon on the construction of the proposed ground station for global satellite communication at Arvi, near Poona. About 230 acres of land have been acquired. India's participation in the global satellite communication system is already in operation in a number of countries including the U.S.

(16) Pearl Buck Donates

Pearl Buck, the Nobel prize-winner novelist on Tuesday celebrated her 75th birthday by donating most of her seven million dollar fortune to a welfare project for mixed Asian and American percentage. The money will be used for Pearl S Buck Foundation which was formed in 1964.

Training Farm Proposed

Two agreements between the FAO and the National Committee for Freedom from Hunger campaign were signed here today.

Under one of the agreements, the Australian Committee for Freedom from Hunger campaign will assist India in setting up a training farm for young farmers at Visakhapatnam.

(17) Restricted Deals in Calcutta Shares

The Calcutta Stock Market again experienced dull conditions today. Economic and political uncertainties tended to restrain activity. Interest was largely confined to clearing shares, cash shares were neglected and the tendency was downwards. Indian Iron closed higher at Rs. 15.44 mainly due to short covering. Engineering shares were neglected. Clearing miscellaneous shares improved slightly in line with Indian Iron.

Journalist Wins Award

An Indian Journalist, formerly a New Delhi English daily, Mr. Sumer Kaul (29) has won the Henry N. Taylor award instituted in the name of the young U.S. newsman killed in the Congo in 1960, which includes a plaque and a travel grant to 'explore' the U.S.

(18) "Gravity" Time Recorders

Automatic time recorder for the factory, simple and automatic device for accurate and faithful recording of the date, hour and minute of arrivals and departure of workmen, simple and swift in operation. Completely eliminates inaccuracies of labour and expense involved in human operations.

Scientific Probe Towards Venus

The despatch of instrumented probes towards Venus by the Soviet Union and within a few days space by the United States is not to be considered a race to that planet. The fact is that Venus is at the moment in the most favourable position for an earth-launched vehicle to fly by some four months later. The most significant information either probe may relay to us will be whether there is sufficient water on it. Without water and with a high temperature as we know it is unlikely to have life on Venus.

(19) Tamil Drama Festival

A three-day Tamil dance/drama festival will begin at Shanmukhanadda Auditorium on Friday under the auspices of UNF Cyltarts, a newly formed organization aiming at fostering the cultural heritage of the country.

On Sunday a Bharat Natyam recital will be presented by Mayaram Sisters (Vasanthmala and Kalpana).

Industrial Goods Prices will not Increase

The increase in the tax on goods vehicles in Mr. Vankhede's budget is not going to substantially affect the prices of industrial goods.

The immediate impact of the higher tax would probably be on the prices of perishable goods like vegetables and fruits most of which are brought to Bombay from the interior by farmers who themselves operate lorries.

(20) Unesco Prepares Blueprint of "Design for Living" Project

The Indian National Commission for UNESCO moved today to evolve a concrete programme to give shape to the proposed "Design for Living" project in memory of Jawaharlal Nehru.

Technical Improvement in Mini Car

The model of small car is in the exhibition of the world fair New York. The mechanism is much simpler in these cars and their operation quite easy.

(21) Fission Techniques

The Prime Minister Mrs. Indira Gandhi, replied in the affirmative to three crucial questions in the Lok Sabha today regarding Indian Scientists' acquaintance with atomic fission techniques. There are queries as to whether the scientists connected with nuclear works of the Atomic Energy Commission were acquainted with the know-how of: (1) fission technique of purified nuclear fuel amounting to its critical size; (2) mechanics of assembling fissionable fuel into ~~its~~ critical mass; and (3) preparing the blueprint necessary for fission of nuclear fuel equal to its limiting quantity.

Bill to Set up Farm Varsity Introduced

A Bill, seeking to establish an agricultural University in Maharashtra, was introduced in the Maharashtra Council by Mr. P.K.Sawant, Agriculture Minister on Friday.

Beside the constituent colleges the University will have at the headquarters within the campus colleges of agriculture (including animal husbandry) veterinary science, agricultural technology, agricultural engineering, home science, basic sciences and humanities and an institute for post-graduate studies.

(22) Call for Research in Textile Engineering

Mr. Balkrishna Harivallabhdas, President of the Ahmedabad Millowners Association has urged manufacturers of textile machinery to promote research in textile engineering to enable them compete with the products of other countries.

Art Education in States Makes Significant Advance

Maharashtra can now be said to have the most diversified and broad based system of art education and a comprehensive programme of art activities. The Directorate of art, in its first annual report, has noted significant progress.

(23) New Strain of Ragi Crop Developed

The results of research in the University of Agricultural Sciences, here has given new hope to cultivators of ragi, the "poor man's food". These crops were devastated by disease in the last two years.

The disease, first noticed last year, had caused heavy damage to the ragi crop in Bangalore, Kolar, Tumkur, Hassan, Mandya and Shimoga districts.

(24) Kanungo Opens Art Show

A one-man show of the paintings of Dr. Dinesh Dave organized by the Ahmedabad Medical Society was inaugurated by Shri Nityanand Kanungo, Governor of Gujarat, here today.

The Governor lauded the interest of Dr. Dave in painting and said that his paintings had belied the belief that doctors were concerned with medicine and patients. He said that it was the sensitivity of a person that took him to art despite the vocation of profession he pursued. About 50 exhibits have been displayed at the show.

Ceylon's Rubber Sales to China may Fall

Ceylon's rubber sales to China are likely to drop considerably in the next few years as a result of Ceylon's crash programme to raise the production of rice.

This possible repercussion of the drive on the Ceylon-China rubber-rice narter pact was visualised by three leading rubber trade organizations in a joint paper on Ceylon's present rubber marketing arrangements, presented at a rubber seminar yesterday.

A Casteless Society

The Chief Minister of Madras Mr. C.N. Annadurai told the State Assembly the other day that "inter-caste marriages should take place increasingly if caste cleavages and chasms are to be closed." The Madras budget for 1967-68 provided for the award of gold-medals to persons who marry outside their caste. The DMK's determination to promote social integration is no doubt commendable. Apparently, the party no longer believes in the inevitability of caste struggle but it is approaching the problem from the wrong end. Inter-caste marriages will follow naturally once social rigidities disappear but they cannot be made the spearhead of reform.

(25) Facilities for Training Journalists

The Press Council of India is conducting an inquiry into the facilities available in the country for training in journalism, Mr. J. R. Mudholkar, Chairman of the Council said in Bombay on Monday.

He said that this was necessary if the press was to play its part boldly and tirelessly in a world where the demands on journalists were increasing.

50 Scientists Rewarded for Inventions

More than 50 scientists have been given cash awards, ranged from Rs. 5,000 to Rs. 500.

Many of the awards given today have gone to inventors who have successfully replaced imported items by indigenous products, which contributed towards saving valuable foreign exchange.

(26) Farmer Sets up Record

A progressive farmer of Saurashtra has set a record by producing 105 K.grams of Wheat per Spike.

He told that he has achieved this by taking adequate plant protection measures and using good quality fertilizers. Mr. Bhanushali had produced 2229 kilo grams of hybrid bajri per acre during the last khariff season.

"Nine Hours to Rhythm"

Gopi Krishna sets record 9 Hours' non-stop dance.

For nine long hours on Monday Gopi Krishna held the stage at Bombay's Patkar Hall and in those nine rhythm-filled hours he became the world's champion marathon dancer.

(27) Surveyor Hits Moon but Loses its Voice

America's surveyor spacecraft hit the Moon on Sunday night but lost its radio voice. It developed some mechanical trouble and was apparently damaged or destroyed during the final landing manoeuvre.

Annuity Deposit to Cover More People: Rates up

The Union Government has decided to reduce the exemption of the total annual income of Rs.15,000 and also to raise the rate of percentages for making deposits above Rs.25,000 on a slab basis.

The rate of annuity deposit will be raised from seven per cent to nine per cent.

(28) Exhibition of Engineering Goods in Cairo

India's independence day celebrations in Cairo began this morning with the opening of an engineering exhibition at the India Trade Centre and were rounded off with an address by the Ambassador.

The exhibition featured a large variety of Indian machine tools heavy and light engineering goods and electronic equipments.

Crop Demonstration

The Indian Council of Agricultural Research has drawn up a multi-point programme for national demonstration of crops following a recent meeting on the subject.

The main programme gives top priority to food grain crops in these demonstrations. It also stresses the need for good teamwork involving institutions, universities and research centres and scientific workers.

(29) Many Types of Classical Dances

Till recently the world knew only four types of Indian classical dances, namely, Bharat Natyam, Kathakali, Kathak and Manipuri. On the basis of recent and startling discoveries, it is now believed that there are at least nine schools of dancing prevalent in India.

India Hopes to Launch a Rocket to the Moon in 1970

A new Scientific Advance very recently a noted Indian Scientist has found possibility of launching a rocket to the Moon from Thumba near Trivandrum. The rocket would be equipped with all modern scientific innovations for transmitting messages and photographs.

(30) Spray Steel Making

The new technique of spray steel-making, developed by the British Iron and Steel Research Association, seems to be a major break through in steel technology. It helps to refine the blast furnace metal rapidly and continuously, leading to the production of a wide range of plain carbon and low alloy steels at highly competitive costs.

It is said that this technique of steel making reduces cost of production by 15 to 25 per cent.

Golden Opportunities for Small Units of Industries

The banks were always anxious to help small scale industries and the finance given by them was much larger than shown. Now they are free to have more investments within the frame-work of planned economy under the scrutiny of the Reserve Bank.

Co-operative interest always tried to keep commercial bank away from the field on grounds of unequal competition by increasing the opportunity for the small scale industries.

Sub-test: III

Instruction:

Here you are given some information blanks which you are required to fill in precisely. Please go through them and do not stop when you fail to answer a particular item. Instead, you go ahead to complete the task in the limited time. You may use "Gujarati" equivalents while answering, if you are not sure of the English word.

- (1) A plant breathes chiefly through its.....
.....
- (2) The most prominent author of the theory of evolution was.....
- (3) There are two kinds of limited firms namely
.....and.....
- (4) Radar is used for.....
- (5) Pandit Ravishanker is known as a.....
- (6) A rose plant grows well by.....
- (7) "Godan" is written by.....
- (8) A ledger is a book used in the.....
- (9) Galvanometer is used to measure.....
- (10) Among the plants that grow in darkness.....
.....deserve mention.

- (11) Mahabalipuram is famous for.....
- (12) Transformer is used for.....
- (13) A balance-sheet is.....
- (14) A hair-spring is used in a.....
- (15) Nandalal Basu is a.....
- (16) One should use.....for
protecting plants from insects.
- (17)received Adam's
prize in 1967.
- (18) The author of "As you like it" is.....
- (19) A railway signal will.....if
the wire connecting it is broken.
- (20) A bank over-draft is.....
- (21) Dr. C.V.Raman is known for his.....
- (22) Picasso is.....
- (23) "Dr.Zhivago" brought Nobel Prize to.....
- (24) Potato grows well in.....soil.
- (25) Terracotta is.....
- (26) "Vande Mataram" is written by.....
- (27) A magnet may lose its power to attract
after it is.....
- (28) The irrigation system in our country can
be improved by.....
- (29) A demand draft is.....
- (30) The function of a piston is to.....

- (31) The yield of Tobacco can be improved by....

- (32) Specimens of Gothic art are much found in...

- (33) A Telstar is.....
- (34) A bill of exchange is used for.....
- (35) Among the vedas the following is known for
 its poetic value:

- (36) A.C. means.....and D.C.means.....
- (37) X-ray cannot pass through.....
- (38) Tea-plant requires.....type of soil.
- (39) The advantage of a fixed deposit account
 is.....
- (40) A Fresco is a kind of.....
- (41) In an oil engine water is used for.....

- (42) Sphinx can be found in.....
- (43) 'Mahabharat' was originally written by.....

- (44) An 'Account Payee Cheque' can be ~~en~~cash
-
- (45) Sugarcane requires.....soil.

(46) There are three main schools of dances in India, viz.: (1).....

(2).....

(3)

(47) Fuse is used for.....

(48) That plant has life has been discovered by.....

(49) The best period of the year for exposing roots of the trees or plants is.....

(50) "Pravda" is published from.....

(51)are radio active substances.

(52) "Monalisa" is a.....by.....

(53) A third party insurance covers the risk of.....

(54) The difference between valve and cock is... ..

(55) The difference in structure between radio and transistor is.....

(56) Colage painting is.....

(57) As we go high and high gravitational attraction goes on.....

(58) Sandy soil helps the growth of the plants like.....

(59) Dividend is.....

- (60) "Discovery of India" is written by.....
- (61) Relief art is.....
- (62) A pulley system has its advantage of.....
-
- (63) Sterling balance means.....
- (64) Mildly hot and mixed climate and black soil are good for the growth of.....
- (65) 'Shikara' is.....
- (66) To raise the boiling point of liquid we increase.....or we add.....
- (67) Heat and moisture, fertile alluvial lime mixed soil is particularly preferable for the cultivation of.....
- (68) Stucco means.....
- (69) The difference between pig iron and steel is.....
- (70) A battery cell contains.....voltage of electric energy.
- (71) Demurrage is.....
- (72) "Kak" is a character of the novel.....
- (73) One dollar is equivalent to.....rupees,
- (74) Seismograph is.....
- (75) Ball-bearing is used for.....
- (76) "Gitanjali" is composed by.....

(77) The function of U.N.O. is.....

(78) Instead of sowing a mango seed for plantation one can get the fruits at an early stage by.....

Sub-Test: IV

Instruction:

Here you are given certain questions with possible answers in terms of percentages. In most cases, it will be necessary for you to guess which of the answers is right. Make your best guess and underline one of the seven points on the given scale. Your answers may not agree with those of others, but you should make choice, which you feel, is the most nearly correct. Avoid spending too much time on any one question and do not leave any question unresponded.

(1) How many children grow up to be scientist?

- | | |
|-----------------|-----------------|
| (a) 95 per cent | (b) 90 per cent |
| (c) 70 per cent | (d) 50 per cent |
| (e) 30 per cent | (f) 10 per cent |
| (g) 5 per cent | |

(2) How many students in the university would like to read Indian history and culture at their leisure time?

- | | |
|-----------------|-----------------|
| (a) 95 per cent | (b) 90 per cent |
| (c) 70 per cent | (d) 50 per cent |
| (e) 30 per cent | (f) 10 per cent |
| (g) 5 per cent | |

(3) What per cent of people should keep information about international trade and commerce?

- | | |
|-----------------|-----------------|
| (a) 95 per cent | (b) 90 per cent |
| (c) 70 per cent | (d) 50 per cent |
| (e) 30 per cent | (f) 10 per cent |
| (g) 5 per cent | |

(4) How many parents should spend a good amount for educating their children for becoming engineers?

- | | |
|-----------------|-----------------|
| (a) 95 per cent | (b) 90 per cent |
| (c) 70 per cent | (d) 50 per cent |
| (e) 30 per cent | (f) 10 per cent |
| (g) 5 per cent | |

(5) How many people think that being an artist is a fine career?

- | | |
|-----------------|-----------------|
| (a) 95 per cent | (b) 90 per cent |
| (c) 70 per cent | (d) 50 per cent |
| (e) 30 per cent | (f) 10 per cent |
| (g) 5 per cent | |

(6) To what extent is it true to say that gardening is the most profitable hobby?

- | | |
|-----------------|-----------------|
| (a) 95 per cent | (b) 90 per cent |
| (c) 70 per cent | (d) 50 per cent |

- (e) 30 per cent (f) 10 per cent
(g) 5 per cent

(7) What per cent of one's spare money are spent for buying literary books?

- (a) 95 per cent (b) 90 per cent
(c) 70 per cent (d) 50 per cent
(e) 30 per cent (f) 10 per cent
(g) 5 per cent

(8) What per cent of the books on export and import are to be kept in a library?

- (a) 95 per cent (b) 90 per cent
(c) 70 per cent (d) 50 per cent
(e) 30 per cent (f) 10 per cent
(g) 5 per cent

(9) What per cent of students are interested in chemistry?

- (a) 95 per cent (b) 90 per cent
(c) 70 per cent (d) 50 per cent
(d) 30 per cent (f) 10 per cent
(g) 5 per cent

(10) What per cent of population should take up farming as a profession?

- (a) 95 per cent (b) 90 per cent
- (c) 70 per cent (d) 50 per cent
- (e) 30 per cent (f) 10 per cent
- (g) 5 per cent

(11) How many students spend their time on a musical instrument?

- (a) 95 per cent (b) 90 per cent
- (c) 70 per cent (d) 50 per cent
- (e) 30 per cent (f) 10 per cent
- (g) 5 per cent

(12) How much technical education is desired in India?

- (a) 95 per cent (b) 90 per cent
- (c) 70 per cent (d) 50 per cent
- (e) 30 per cent (f) 10 per cent
- (g) 5 per cent

(13) What per cent of students would like to join business?

- (a) 95 per cent (b) 90 per cent
- (c) 70 per cent (d) 50 per cent
- (e) 30 per cent (f) 10 per cent
- (g) 5 per cent

(14) How many students would like to see an industrial fair?

- (a) 95 per cent (b) 90 per cent
- (c) 70 per cent (d) 50 per cent

- (e) 30 per cent (f) 10 per cent
(g) 5 per cent

(15) How much money should be spent by the Government for maintenance of ancient painting and sculpture?

- (a) 95 per cent (b) 90 per cent
(c) 70 per cent (d) 50 per cent
(e) 30 per cent (f) 10 per cent
(g) 5 per cent

(16) How much of the state Government's budget should be directed towards providing better agricultural facilities to the rural population?

- (a) 95 per cent (b) 90 per cent
(c) 70 per cent (d) 50 per cent
(e) 30 per cent (f) 10 per cent
(g) 5 per cent

(17) What per cent of programmes of science should be broadcast every week?

- (a) 95 per cent (b) 90 per cent
(c) 70 per cent (d) 50 per cent
(e) 30 per cent (f) 10 per cent
(g) 5 per cent

(18) What per cent of students would like to read novels?

- (a) 95 per cent (b) 90 per cent
(c) 70 per cent (d) 50 per cent

- (e) 30 per cent (f) 10 per cent
(g) 5 per cent

(19) How many students think that working with the machines is a fruitful occupation?

- (a) 95 per cent (b) 90 per cent
(c) 70 per cent (d) 50 per cent
(e) 30 per cent (f) 10 per cent
(g) 5 per cent

(20) How many people generally think of starting a side-business besides their usual vocation?

- (a) 95 per cent (b) 90 per cent
(c) 70 per cent (d) 50 per cent
(e) 30 per cent (f) 10 per cent
(g) 5 per cent

(21) What per cent of students would enjoy to work in the science laboratory?

- (a) 95 per cent (b) 90 per cent
(c) 70 per cent (d) 50 per cent
(e) 30 per cent (f) 10 per cent
(g) 5 per cent

(22) How many students would like to learn classical vocal music?

- (a) 95 per cent (b) 90 per cent
(c) 70 per cent (d) 50 per cent
(a) 30 per cent (e) 10 per cent
(g) 5 per cent

(23) How many of us feel that there is a real need of training centres for people who are interested in cultivation?

- (a) 95 per cent (b) 90 per cent
- (c) 70 per cent (d) 50 per cent
- (e) 30 per cent (f) 10 per cent
- (g) 5 per cent

(24) What per cent of people believe that writer is the most important member of the society?

- (a) 95 per cent (b) 90 per cent
- (c) 70 per cent (d) 50 per cent
- (e) 30 per cent (f) 10 per cent
- (g) 5 per cent

(25) What per cent of students would like to cultivate the hobby of photography?

- (a) 95 per cent (b) 90 per cent
- (c) 70 per cent (d) 50 per cent
- (e) 30 per cent (f) 10 per cent
- (g) 5 per cent

(26) What per cent of students think that teaching is the best profession?

- (a) 95 per cent (b) 90 per cent
- (c) 70 per cent (d) 50 per cent
- (e) 30 per cent (f) 10 per cent
- (g) 5 per cent

(27) What per cent of population think that science education is the only education useful in this age?

- (a) 95 per cent (b) 90 per cent
- (c) 70 per cent (d) 50 per cent
- (e) 30 per cent (f) 10 per cent
- (g) 5 per cent

(28) What per cent of students believe that there should be more colleges for agriculture?

- (a) 95 per cent (b) 90 per cent
- (c) 70 per cent (d) 50 per cent
- (a) 30 per cent (f) 10 per cent
- (g) 5 per cent

(29) How many students are interested to know about National budget?

- (a) 95 per cent (b) 90 per cent
- (c) 70 per cent (d) 50 per cent
- (e) 30 per cent (f) 10 per cent
- (g) 5 per cent

(30) What per cent of students are interested in preparing model airplanes, radio sets etc.?

- (a) 95 per cent (b) 90 per cent
- (c) 70 per cent (d) 50 per cent
- (e) 30 per cent (f) 10 per cent
- (g) 5 per cent

(31) How many people think that farmers form the most important section in our community?

- (a) 95 per cent (b) 90 per cent
- (c) 70 per cent (d) 50 per cent
- (e) 30 per cent (f) 10 per cent
- (g) 5 per cent

(32) What per cent of students would like to see classical dance programme?

- (a) 95 per cent (b) 90 per cent
- (c) 70 per cent (d) 50 per cent
- (e) 30 per cent (f) 10 per cent
- (g) 5 per cent

(33) What per cent of students should go for technical training?

- (a) 95 per cent (b) 90 per cent
- (c) 70 per cent (d) 50 per cent
- (e) 30 per cent (f) 10 per cent
- (g) 5 per cent

(34) What per cent of students take commerce education as an essential part of education?

- (a) 95 per cent (b) 90 per cent
- (c) 70 per cent (d) 50 per cent
- (e) 30 per cent (f) 10 per cent
- (g) 5 per cent

(35) How many students support the idea of inter-state living?

- (a) 95 per cent (b) 90 per cent
- (c) 70 per cent (d) 50 per cent
- (e) 30 per cent (f) 10 per cent
- (g) 5 per cent

(36) How much of science should be included in general education course at the college level?

- (a) 95 per cent (b) 90 per cent
- (c) 70 per cent (d) 50 per cent
- (e) 30 per cent (f) 10 per cent
- (g) 5 per cent

(37) What per cent of one's spare money should be spent for buying scientific instruments for small experimentation at home?

- (a) 95 per cent (b) 90 per cent
- (c) 70 per cent (d) 50 per cent
- (e) 30 per cent (f) 10 per cent
- (g) 5 per cent

(38) What per cent of people feel that now there is a greater demand of well qualified agriculturists in India?

- (a) 95 per cent (b) 90 per cent
- (c) 70 per cent (d) 50 per cent
- (e) 30 per cent (f) 10 per cent
- (g) 5 per cent

(39) What per cent of students are interested to know about income-tax regulations?

- (a) 95 per cent (b) 90 per cent
- (c) 70 per cent (d) 50 per cent
- (e) 30 per cent (f) 10 per cent
- (g) 5 per cent

(40) How much importance should be given to art education?

- (a) 95 per cent (b) 90 per cent
- (c) 70 per cent (d) 50 per cent
- (e) 30 per cent (f) 10 per cent
- (g) 5 per cent

(41) What per cent of the total budget should be spent for development of technical education?

- (a) 95 per cent (b) 90 per cent
- (c) 70 per cent (d) 50 per cent
- (e) 30 per cent (f) 10 per cent
- (g) 5 per cent

(42) To what extent is it true that education is meant for developing human relations and social adjustment?

- (a) 95 per cent (b) 90 per cent
- (c) 70 per cent (d) 50 per cent
- (e) 30 per cent (f) 10 per cent
- (g) 5 per cent

(43) What per cent of people believe that best religion is the religion of humanity?

- (a) 95 per cent (b) 90 per cent
- (b) 70 per cent (d) 50 per cent

(e) 30 per cent (f) 10 per cent

(g) 5 per cent

(44) What per cent of people consider salesmanship as a promising career?

(a) 95 per cent (b) 90 per cent

(c) 70 per cent (d) 50 per cent

(e) 30 per cent (f) 10 per cent

(g) 5 per cent

(45) How many students feel that they should know much more about fertilizers?

(a) 95 per cent (b) 90 per cent

(c) 70 per cent (d) 50 per cent

(e) 30 per cent (f) 10 per cent

(g) 5 per cent

(46) What per cent of students should take part in cultural activities in the youth festival programme?

(a) 95 per cent (b) 90 per cent

(c) 70 per cent (d) 50 per cent

(e) 30 per cent (f) 10 per cent

(g) 5 per cent

(47) What per cent of students would like to use a hammer, saw, screw-driver, etc.?

(a) 95 per cent (b) 90 per cent

(c) 70 per cent (d) 50 per cent

(e) 30 per cent (f) 10 per cent

(g) 5 per cent

(48) What per cent of people believe that definite provision should be made for promotion of scientific talents by every means?

- | | |
|-----------------|-----------------|
| (a) 95 per cent | (b) 90 per cent |
| (c) 70 per cent | (d) 50 per cent |
| (e) 30 per cent | (f) 10 per cent |
| (g) 5 per cent | |

(49) What per cent of people are interested in share market?

- | | |
|-----------------|-----------------|
| (a) 95 per cent | (b) 90 per cent |
| (c) 70 per cent | (d) 50 per cent |
| (e) 30 per cent | (f) 10 per cent |
| (g) 5 per cent | |

(50) What per cent of students are willing to work for social welfare?

- | | |
|-----------------|-----------------|
| (a) 95 per cent | (b) 90 per cent |
| (c) 70 per cent | (d) 50 per cent |
| (e) 30 per cent | (f) 10 per cent |
| (g) 5 per cent | |

(51) What per cent of students are interested in recent development in science?

- | | |
|-----------------|-----------------|
| (a) 95 per cent | (b) 90 per cent |
| (c) 70 per cent | (d) 50 per cent |
| (e) 30 per cent | (f) 10 per cent |
| (g) 5 per cent | |

(52) What per cent of students would like to take an active part in drama?

- (a) 95 per cent (b) 90 per cent
- (c) 70 per cent (d) 50 per cent
- (e) 30 per cent (f) 10 per cent
- (g) 5 per cent

(53) To what extent do industries lead to the advancement of a country?

- (a) 95 per cent (b) 90 per cent
- (c) 70 per cent (d) 50 per cent
- (e) 30 per cent (f) 10 per cent
- (g) 5 per cent

(54) How many students would like to read articles on farming?

- (a) 95 per cent (b) 90 per cent
- (c) 70 per cent (d) 50 per cent
- (e) 30 per cent (f) 10 per cent
- (g) 5 per cent

(55) How many students do join the hobby centre for developing the technical skill?

- (a) 95 per cent (b) 90 per cent
- (c) 70 per cent (d) 50 per cent
- (e) 30 per cent (f) 10 per cent
- (g) 5 per cent

(56) What per cent of students would like to visit an exhibition of famous paintings?

- (a) 95 per cent (b) 90 per cent
- (c) 70 per cent (d) 50 per cent
- (e) 30 per cent (f) 10 per cent
- (g) 5 per cent

(57) What per cent of students do believe that the progress of science has brought more comfort and amenities to people?

- (a) 95 per cent (b) 90 per cent
- (c) 70 per cent (d) 50 per cent
- (e) 30 per cent (f) 10 per cent
- (g) 5 per cent

(58) What per cent of students would like to know about soil conservation and irrigation?

- (a) 95 per cent (b) 90 per cent
- (c) 70 per cent (d) 50 per cent
- (e) 30 per cent (f) 10 per cent
- (g) 5 per cent

(59) How many students are interested in learning type-writing in their spare time?

- (a) 95 per cent (b) 90 per cent
- (c) 70 per cent (d) 50 per cent
- (e) 30 per cent (f) 10 per cent
- (g) 5 per cent

(60) How many students would like to attend philosophical lectures?

- (a) 95 per cent (b) 90 per cent
- (c) 70 per cent (d) 50 per cent
- (e) 30 per cent (f) 10 per cent
- (g) 5 per cent

(61) What per cent of students would like to make a scrap book of pictures or paintings of their choice?

- (a) 95 per cent (b) 90 per cent
- (c) 70 per cent (d) 50 per cent
- (e) 30 per cent (f) 10 per cent
- (g) 5 per cent

(62) What per cent of intelligent persons feel that iron and steel are the most precious metals in the world?

- (a) 95 per cent (b) 90 per cent
- (c) 70 per cent (d) 50 per cent
- (e) 30 per cent (f) 10 per cent
- (g) 5 per cent

(63) To what extent is it true that going for business is better than any other vocation in life?

- (a) 95 per cent (b) 90 per cent
- (c) 70 per cent (d) 50 per cent
- (e) 30 per cent (f) 10 per cent
- (g) 5 per cent

(64) What per cent of vacant land of the country should be used for cultivation?

- (a) 95 per cent (b) 90 per cent
- (c) 70 per cent (d) 50 per cent
- (e) 30 per cent (f) 10 per cent
- (g) 5 per cent

(65) What per cent of students would like to join "International Peace Mission"?

- (a) 95 per cent (b) 90 per cent
- (c) 70 per cent (d) 50 per cent
- (a) 30 per cent (f) 10 per cent
- (g) 5 per cent

(66) What per cent of students aim at researches?

- (a) 95 per cent (b) 90 per cent
- (c) 70 per cent (d) 50 per cent
- (e) 30 per cent (f) 10 per cent
- (g) 5 per cent

(67) What per cent of people feel that plough is more important than pen?

- (a) 95 per cent (b) 90 per cent
- (c) 70 per cent (d) 50 per cent
- (e) 30 per cent (f) 10 per cent
- (g) 5 per cent

(68) How many students feel that technical education should be taught as one of the compulsory subjects in school?

- (a) 95 per cent (b) 90 per cent
- (c) 70 per cent (d) 50 per cent

(e) 30 per cent (f) 10 per cent

(g) 5 per cent

(69) How many students would like to draw cartoons or humorous sketches of people or animals?

(a) 95 per cent (b) 90 per cent

(c) 70 per cent (d) 50 per cent

(e) 30 per cent (f) 10 per cent

(g) 5 per cent

(70) How many students do like to visit an exhibition of laboratory equipments?

(a) 95 per cent (b) 90 per cent

(c) 70 per cent (d) 50 per cent

(e) 30 per cent (f) 10 per cent

(g) 5 per cent

(71) What per cent of students enjoy reading critical reviews on economic problems published in newspapers?

(a) 95 per cent (b) 90 per cent

(c) 70 per cent (d) 50 per cent

(e) 30 per cent (f) 10 per cent

(g) 5 per cent

(72) What per cent of students would like to attend writers' conference?

(a) 95 per cent (b) 90 per cent

(c) 70 per cent (d) 50 per cent

(e) 30 per cent (f) 10 per cent

(g) 5 per cent

Name: _____

Age: _____ Male/Female:

Faculty/Institution:

(1) Father's Name:

Father's (Guardian's) Occupation:

Mechanic/Engineer/Businessman/
Artist (Painter, Sculptor, Musician,
Dramatist, etc.)/Journalist/Writer/
Literary man/Chemist/Man of Scientific Pursuits/Clerk/Farmer/Persons
involved in farming/Any other.....

Occupation of other nearest relatives:

Uncle's:

Brother's:

Mother's:

Sister's:

Any other source of income:

(2) Caste:

What caste do you belong to:

Agriculturist Caste (e.g. Patel)

Artisan or Business Caste (e.g. Bania)

Prestige caste (e.g. Brahmin)

Lower caste:

Any other:

(3) Where did you live before joining this college?

The area in which you lived is mainly:

Urban

Rural

(a) Industrial

(a) Agricultural

(b) Commercial

(b) Residential

(c) Residential

(4) Which of the following subject areas did you specialize in your school career?

General

Technical

Commercial

Fine Arts (Drawing etc.)

Agricultural

Science (Physics, Chemistry, etc.)

(5) (a) Have you taken up this course according to your parents' desire?

Yes/No

(b) Have you taken up the course under the influence of some of your friends or teachers?

Yes/No

(c) Have you taken up the course as you liked this course?

Yes/No

(d) How long have you been in this course?

.....

(e) Have you taken up similar course in your school or other institution?

Yes/No

- (f) What is the traditional occupation of your family in general?
- (6) (a) What subjects do you like the most?
- (b) What are your main hobbies?
- (c) Do you think that after joining the college you have changed your interest? Yes/No
- (7) Have you been guided by any consideration before you have selected the course? Yes/No
- Do you think that by taking this course of study you will get:
- (a) more money
- (b) more social status
- (c) better scope for development of your interest
- (d) any other.....
- (8) (a) I want to become.....
- (b) I have been encouraged/discouraged by my parents to develop my interest.
- (c) My home atmosphere is not proper for developing my interest. Yes/No
- (d) I want to retain my interest by.....

Interest-test

Sudha Trivedi

Interest area	I	II	III	IV	Total
Fine Arts					
Technical					
Commercial					
Agriculture					
Humanities					
Science					

Direction : Put a tickmark (✓) in the right box. There is only one answer to each question. So either put a tickmark or complete the column “ Any other.....”. Don’t leave any item incomplete.

1 Name :

2 Age :

3 (a) College / Faculty / Institution :

(b) Division :

4 Father’s / guardian’s name :

5 Father’s / guardian’s occupation :

(a) Technician ☐ / Mechanic ☐ / Engineer ☐

(b) Businessman ☐ / Accountant ☐ / Auditor ☐ / Bank-manager ☐

(c) Artist ☐ / Sculptor ☐ / Musician ☐ / Painter ☐ / Dramatist ☐

(d) Journalist ☐ / Writer ☐ / Educationist ☐ / Social worker ☐

(e) Farmer ☐ / Agriculturist ☐

(f) Scientist ☐ / Laboratory assistant ☐

(g) Any other _____

6 Area of residence where most of your early days has been spent :

Urban Industrial ☐

Urban Commercial ☐

Urban Residential / Cultural ☐

Rural Agricultural ☐

Rural Residential ☐

7 Family occupation : (The occupation selected by most of your family members at present or in the past)

- (a) Technician ☐ / Mechanic ☐ / Engineer ☐
- (b) Businessman ☐ / Accountant ☐ / Auditor ☐ / Bank-manager ☐
- (c) Artist ☐ / Sculptor ☐ / Musician ☐ / Painter ☐
Dramatist ☐
- (d) Journalist ☐ / Writer ☐ / Educationist ☐ / Social worker ☐
- (e) Farmer ☐ / Agriculturist ☐
- (f) Scientist ☐ / Laboratory assistant ☐
- (g) Any other _____

8 Parental desire : (What did your parents want you to be ?)

- (a) Doctor ☐ , Scientist ☐
- (b) Engineer ☐
- (c) Social worker ☐ / Teacher ☐
- (d) Businessman ☐
- (e) Artist ☐
- (f) Agriculturist ☐
- (g) Any other _____

9 Consideration guiding your choice :

- (a) Social prestige ☐
- (b) Economic status ☐
- (c) Self-satisfaction ☐
- (d) Parental desire ☐
- (e) Any other :

Sub-test : I

Instruction :

Here is a list of activities arranged in 19 groups. Each group contains six items. Your task is to select one activity from each group according to your choice. If you find in a group more than one items which you prefer, put a tick mark (✓) against that particular item which you like the most. Similarly, if you do not find any of the activities listed in a group up to your choice, you may add your preference in the column "Any other...". Please go through each item of the group before making a final choice.

1 In my leisure time I would like to...

- draw and paint a picture ()
- keep family accounts ()
- work in my garden ()
- repair small machines eg. cycle, watch, radio ()
- read literary works eg. novels ()
- try some experiments in chemistry at home ()
- Any other

2 If I happen to be in the library for some time I would like to...

- read scientific journals ()
- read some literary supplements ()
- read books on fine arts ()
- read annual report on industrial development ()
- study national budget ()
- read bulletins on agriculture ()
- Any other...

3 During the short holidays I would like to...

- collect historical facts of a particular place ()
- collect specimens of arts ()
- prepare science models for science exhibition ()
- collect seeds for sowing ()
- handle small tools ()
- join a co-operative scheme for making some profit ()
- Any other...

4 While going on excursion somewhere I would like to...

- have photographs or sketches of the landscape ()
- keep systematic account of the collection and expenditure in this connection ()
- collect typical specimens of plants for my garden ()
- collect historical facts of the place and myths prevailing among people ()
- find the possibilities of technological development of the place ()
- collect typical specimens of rocks or soil for a science exhibition ()
- Any other...

5 If I get opportunity to travel I would like to see...

- good peice of sculpture ()
- well known universities of India ()
- a big steel plant ()
- Trombay-Apsara reactor ()
- agricultural institute ()
- a big export market ()
- Any other...

6 During a free period in college I would like to spend the time in...

- debate and discussion ()
- making observations in the laboratory ()
- handling machines in the workshop ()
- looking after the gardens in the premises ()
- drawing pictures for the college magazine ()
- collecting funds for the students' co-operative store ()
- Any other...

7 I would like to see the exhibition of...

- fine arts ()
- technical progress ()
- science ()
- agriculture ()
- books and journals ()
- commerce and trade ()
- Any other...

8 If I get spare time I would like to...

- take care of plants in my garden by using manure, water etc. ()
- read about atomic research ()
- learn how to estimate costs and profits in a business ()
- read about the construction of radio, transistor etc. ()
- read articles on education or philosophy ()
- play a musical instrument ()
- Any other...

9 I would like to spend money for...

- buying small parts of a machine for assembling ()
- buying paints and brushes ()
- buying manures and seeds ()
- buying things for sale at a higher price ()
- buying souvenirs of different countries ()
- buying equipments for making small experiments at home ()
- Any other...

10 I would like to make friendship with a...

- technician ()
- businessman ()
- farmer ()
- painter or sculptor ()
- scientist ()
- journalist (eg. News editor or writer of editorial columns) ()
- Any other...

11 I like subject teachers of...

- History. Gujarati or English ()
- art, craft or music ()
- science ()
- commercial geography or accounts ()
- mechanics ()
- soil chemistry or agriculture ()
- Any other...

- 12 I would like to be...
- an engineer ()
 - an artist or a musician ()
 - an editor/a lecturer of humanities ()
 - a chemist ()
 - an agriculturist ()
 - a bank-manager or a businessman ()
 - Any other...
- 13 I read newspaper for going through...
- music lessons or articles by artists ()
 - literary section ()
 - news on technical advance ()
 - news on scientific inventions ()
 - trade news ()
 - news on agricultural products etc. ()
 - Any other...
- 14 I prefer visit to...
- a farm ()
 - a machine tool factory ()
 - a commercial exhibition ()
 - an art gallery ()
 - a national library ()
 - a science laboratory ()
 - Any other...
- 15 I would like...
- carrying experiments with chemicals ()
 - gardening ()
 - building up home library ()
 - making model airplanes, transistor, furniture etc. ()
 - collecting information on rules and regulations of income-tax for business purpose ()
 - trying new tunes with a musical instrument ()
 - Any other...

16 In my opinion most useful people are...

- businessmen ()
- farmers ()
- sculptors ()
- inventors ()
- technicians ()
- writers ()
- Any other...

17 I enjoy radio programmes on...

- interview with the scientists ()
- cultivation process (eg. How to keep the flowers fresh for a long time ?). ()
- poetry-criticism ()
- market prices ()
- classical music ()
- technical topic ()
- Any other...

18 I enjoy...

- compilation of information on new type of diesel engine ()
- paper on space research ()
- essay on price freeze ()
- views on language problem ()
- article on use of fertilizers in different soils ()
- commentary on films ()
- Any other...

19 I would like to select books on...

- literature ()
- economic problems ()
- modern art ()
- farming ()
- scientific inventions ()
- construction and uses of tools ()
- Any other...

Sub-test : 2.

Instruction :—

Here you are given certain questions with possible answers in terms of percentages. In all cases it will be necessary for you to guess which of the answers is right. Make your best guess and underline your answer. Your answers may not agree to those of other persons. You should give answer, which is correct in your opinion. Avoid spending too much time on any one question and do not leave any question unanswered.

- 1 How many students in the university would like to read Indian history and culture at their leisure time ?
(a) 95% (b) 90% (c) 70% (d) 50% (e) 30% (f) 10% (g) 5%.
- 2 What percent of people should keep information about international trade and commerce ?
(a) 95% (b) 90% (c) 70% (d) 50% (e) 30% (f) 10% (g) 5%.
- 3 How many parents should spend a good amount for educating their children for becoming engineers ?
(a) 95% (b) 90% (c) 70% (d) 50% (e) 30% (f) 10% (g) 5%.
- 4 How many people do think that being an artist is a fine career ?
(a) 95% (b) 90% (c) 70% (d) 50% (e) 30% (f) 10% (g) 5%.
- 5 What percent of one's spare money are spent for buying literary books ?
(a) 95% (b) 90% (c) 70% (d) 50% (e) 30% (f) 10% (g) 5%.
- 6 What percent of students are interested in chemistry ?
(a) 95% (b) 90% (c) 70% (d) 50% (e) 30% (f) 10% (g) 5%.
- 7 What percent of population should take up farming as a profession ?
(a) 95% (b) 90% (c) 70% (d) 50% (e) 30% (f) 10% (g) 5%.
- 8 How many students do spend their spare time on a musical instrument ?
(a) 95% (b) 90% (c) 70% (d) 50% (e) 30% (f) 10% (g) 5%.
- 9 How much technical education is desired in India ?
(a) 95% (b) 90% (c) 70% (d) 50% (e) 30% (f) 10% (g) 5%.
- 10 What percent of students would like to join business ?
(a) 95% (b) 90% (c) 70% (d) 50% (e) 30% (f) 10% (g) 5%.
- 11 How many students would like to see an industrial fair ?
(a) 95% (b) 90% (c) 70% (d) 50% (e) 30% (f) 10% (g) 5%.
- 12 How much money should be spent by the Government for maintenance of ancient painting and sculpture ?
(a) 95% (b) 90% (c) 70% (d) 50% (e) 30% (f) 10% (g) 5%.

- 13 How much of the state Government's budget should be directed towards providing better agricultural facilities to the rural population ?
(a) 95% (b) 90% (c) 70% (d) 50% (e) 30% (f) 10% (g) 5%
- 14 What percent of programmes of science should be broadcast every week ?
(a) 95% (b) 90% (c) 70% (d) 50% (e) 30% (f) 10% (g) 5%
- 15 How many students do think that working with the machines is a fruitful occupation ?
(a) 95% (b) 90% (c) 70% (d) 50% (e) 30% (f) 10% (g) 5%
- 16 What percent of students would enjoy to work in the science laboratory ?
(a) 95% (b) 90% (c) 70% (d) 50% (e) 30% (f) 10% (g) 5%
- 17 How many students would like to learn classical vocal music ?
(a) 95% (b) 90% (c) 70% (d) 50% (e) 30% (f) 10% (g) 5%
- 18 How many of us do feel that there is a real need of training centres for people who are interested in cultivation ?
(a) 95% (b) 90% (c) 70% (d) 50% (e) 30% (f) 10% (g) 5%
- 19 What percent of people do believe that writer is the most important member of the society ?
(a) 95% (b) 90% (c) 70% (d) 50% (e) 30% (f) 10% (g) 5%
- 20 What percent of students do think that teaching is the best profession ?
(a) 95% (b) 90% (c) 70% (d) 50% (e) 30% (f) 10% (g) 5%
- 21 What percent of population do think that science education is the only education useful in this age ?
(a) 95% (b) 90% (c) 70% (d) 50% (e) 30% (f) 10% (g) 5%
- 22 What percent of students do believe that there should be more colleges for agriculture ?
(a) 95% (b) 90% (c) 70% (d) 50% (e) 30% (f) 10% (g) 5%
- 23 How many students are interested to know about national budget ?
(a) 95% (b) 90% (c) 70% (d) 50% (e) 30% (f) 10% (g) 5%
- 24 What percent of students are interested in preparing model airplanes, radiosets etc. ?
(a) 95% (b) 90% (c) 70% (d) 50% (e) 30% (f) 10% (g) 5%
- 25 What percent of students would like to see classical dance programme ?
(a) 95% (b) 90% (c) 70% (d) 50% (e) 30% (f) 10% (g) 5%

- 26 What percent of students should go for technical training ?
(a) 95% (b) 90% (c) 70% (d) 50% (e) 30% (f) 10% (g) 5%
- 27 What percent of students would take commerce education as an essential part of education ?
(a) 95% (b) 90% (c) 70% (d) 50% (e) 30% (f) 10% (g) 5%
- 28 How many students do support the idea of interstate living ?
(a) 95% (b) 90% (c) 70% (d) 50% (e) 30% (f) 10% (g) 5%
- 29 What percent of one's spare money should be spent for buying scientific instruments for small experimentations at home ?
(a) 95% (b) 90% (c) 70% (d) 50% (e) 30% (f) 10% (g) 5%
- 30 What percent of people do feel that there is a greater demand at present of well qualified agriculturists in India ?
(a) 95% (b) 90% (c) 70% (d) 50% (e) 30% (f) 10% (g) 5%
- 31 What percent of students are interested to know about income-tax regulations ?
(a) 95% (b) 90% (c) 70% (d) 50% (e) 30% (f) 10% (g) 5%
- 32 How much importance should be given to art education ?
(a) 95% (b) 90% (c) 70% (d) 50% (e) 30% (f) 10% (g) 5%
- 33 What percent of the total budget should be spent for the development of technical education ?
(a) 95% (b) 90% (c) 70% (d) 50% (e) 30% (f) 10% (g) 5%
- 34 What percent of people do believe that best religion is the religion of humanity ?
(a) 95% (b) 90% (c) 70% (d) 50% (e) 30% (f) 10% (g) 5%
- 35 What percent of people would consider salesmanship as a promising career ?
(a) 95% (b) 90% (c) 70% (d) 50% (e) 30% (f) 10% (g) 5%
- 36 How many students do feel that they should know much more about fertilizers ?
(a) 95% (b) 90% (c) 70% (d) 50% (e) 30% (f) 10% (g) 5%
- 37 What percent of students should take part in cultural activities in the youth festival programme ?
(a) 95% (b) 90% (c) 70% (d) 50% (e) 30% (f) 10% (g) 5%

- 38 What percent of students would like to use hammer, saw, screwdriver etc. ?
(a) 95% (b) 90% (c) 70% (d) 50% (e) 30% (f) 10% (g) 5%
- 39 What percent of people do believe that definite provision should be made for promotion of scientific talents by every means ?
(a) 95% (b) 90% (c) 70% (d) 50% (e) 30% (f) 10% (g) 5%
- 40 What percent of people are interested in share market ?
(a) 95% (b) 90% (c) 70% (d) 50% (e) 30% (f) 10% (g) 5%
- 41 What percent of students are willing to work for social welfare ?
(a) 95% (b) 90% (c) 70% (d) 50% (e) 30% (f) 10% (g) 5%
- 42 What percent of students are interested in recent development in science ?
(a) 95% (b) 90% (c) 70% (d) 50% (e) 30% (f) 10% (g) 5%
- 43 What percent of students would like to take an active part in drama ?
(a) 95% (b) 90% (c) 70% (d) 50% (e) 30% (f) 10% (g) 5%
- 44 To what extent do industries lead to the advancement of a country ?
(a) 95% (b) 90% (c) 70% (d) 50% (e) 30% (f) 10% (g) 5%
- 45 How many students would like to read articles on farming ?
(a) 95% (b) 90% (c) 70% (d) 50% (e) 30% (f) 10% (g) 5%
- 46 How many students do join the hobby centre for developing the technical skill ?
(a) 95% (b) 90% (c) 70% (d) 50% (e) 30% (f) 10% (g) 5%
- 47 What percent of students do believe that the progress of science has brought more comfort and amenities to people ?
(a) 95% (b) 90% (c) 70% (d) 50% (e) 30% (f) 10% (g) 5%
- 48 What percent of students would like to know about soil conservation and irrigation ?
(a) 95% (b) 90% (c) 70% (d) 50% (e) 30% (f) 10% (g) 5%
- 49 How many students are interested in learning type-writing or book-keeping in their spare time ?
(a) 95% (b) 90% (c) 70% (d) 50% (e) 30% (f) 10% (g) 5%
- 50 How many students would like to attend philosophical lectures ?
(a) 95% (b) 90% (c) 70% (d) 50% (e) 30% (f) 10% (g) 5%

- 51 What percent of students would like to make a scrap book of pictures or paintings of their choice ?
(a) 95% (b) 90% (c) 70% (d) 50% (e) 30% (f) 10% (g) 5%
- 52 To what extent is it true that going for business is better than any other vocation in life ?
(a) 95% (b) 90% (c) 70% (d) 50% (e) 30% (f) 10% (g) 5%
- 53 What percent of vacant land of the country should be used for cultivation ?
(a) 95% (b) 90% (c) 70% (d) 50% (e) 30% (f) 10% (g) 5%
- 54 What percent of students would like to join "International Peace Mission ?"
(a) 95% (b) 90% (c) 70% (d) 50% (e) 30% (f) 10% (g) 5%
- 55 What percent of students do aim at researches ?
(a) 95% (b) 90% (c) 70% (d) 50% (e) 30% (f) 10% (g) 5%
- 56 What percent of people do feel that plough is more important than pen ?
(a) 95% (b) 90% (c) 70% (d) 50% (e) 30% (f) 10% (g) 5%
- 57 How many students would like to draw cartoons or humorous sketches of people or animals ?
(a) 95% (b) 90% (c) 70% (d) 50% (e) 30% (f) 10% (g) 5%
- 58 How many students do like to visit an exhibition of laboratory equipments ?
(a) 95% (b) 90% (c) 70% (d) 50% (e) 30% (f) 10% (g) 5%
- 59 What percent of students do enjoy reading critical reviews on economic problems published in news papers ?
(a) 95% (b) 90% (c) 70% (d) 50% (e) 30% (f) 10% (g) 5%
- 60 What percent of students would like to attend writers' conference ?
(a) 95% (b) 90% (c) 70% (d) 50% (e) 30% (f) 10% (g) 5%

Instruction :—

Here you are given some information blanks which you are required to fill in precisely. Please go through them and do not stop where you fail to answer a particular item. Instead, you go ahead to complete the task in the limited time. You may use Gujarati words while answering, if you are not sure of the English words.

- 1 A plant breathes chiefly through its
- 2 The most prominent author of the theory of evolution was
... ..
- 3 There are two kinds of limited firms namely and
- 4 A ledger is a book used in the
- 5 Galvanometer is used to
- 6 Plants like grow in darkness.
- 7 Mahabalipuram is famous for
- 8 Transformer is used for
- 9 A balance-sheet is
- 10 Nandalal Basu is a
- 11 One should use for protecting plants from insects.
- 12 The author of "As you like it" is
- 13 A railway signal will if the wire connecting it is broken.
- 14 A bank overdraft is
- 15 Picasso is
- 16 "Dr. Zhivago" brought Nobel Prize to
- 17 Potato grows well in soil.
- 18 "Vande Mataram" was composed by
- 19 A magnet may lose its power to attract after it is

- 20 The irrigation system in our country can be improved by
- 21 A demand draft is
- 22 The function of a piston is to
- 23 The yield of tobacco can be improved by
- 24 Specimens of Gothic art are mostly found in
- 25 A bill of exchange is used for
- 26 Among the vedas, the is known for its poetic value.
- 27 A. C. means and D. C. means
- 28 X-ray cannot pass through
- 29 Tea-plant requires type of soil.
- 30 A Fresco is a kind of
- 31 In an oil engine water is used for
- 32 The ' Mahabharat ' was originally written by
- 33 An ' Account Payee Cheque ' can be encashed only
- 34 Sugarcane requires soil.
- 35 There are three main types of dances in India viz.
 (a) (b) (c)
- 36 A fuse is used for
- 37 That plant has life has been discovered by
- 38 " Pravda " is published from
- 39 are radio active substances.
- 40 "Monalisa" is a
- 41 The difference between valve and cock is

- 42 The difference in structure between radio and transistor is

- 43 Collage painting is
- 44 As we go higher and higher the gravitational attraction goes on
- 45 Sandy soil helps the growth of the plants like
- 46 Dividend is
- 47 "Discovery of India" is written by
- 48 Relief art is
- 49 A pulley system has its advantage of
- 50 Sterling balance means
- 51 Mildly hot, mixed climate and black soil are good for the growth of
... ..
- 52 'Shikara' is
- 53 To raise the boiling point of liquid we increase
or we add
- 54 Stucco means
- 55 The difference between pig iron and steel is
... ..
- 56 A battery cell contains voltage of electric energy.
- 57 Demurrage is
- 58 "Kak" is a character of the novel
- 59 Ball-bearing is used for
- 60 Instead of sowing a mango seed for plantation one can get the fruits at an
early stage by

Instruction :

Here you are provided with different pairs of news items. First please read the headings of each pair and place a tickmark (✓) against the item which you like more in every pair. You are also required to go through the items you choose everytime and underline some of the important words.

1 Music academy in goa urged

The Goan Patriots through an organisation of Goan freedom fighters urged Goa Government to establish an academy of music and art on the line of Shantiniketan to teach both eastern and western music styles. The academy would definitely promote art and encourage artistic pursuits.

Machines which protect earth

An anti-erosion machine, developed by some engineers does simultaneously two jobs. The machine is designed for planting trees on steep slopes. It digs trenches and leaves behind small mounds of earth and furrows in which water from melting snow and rain collects. Such an anti-erosion system helps to fix the surface layer.

2 Pearl Buck donates

Pearl Buck, the Nobel prize-winner novelist on Tuesday celebrated her 75th birthday by donating most of her seven million dollar fortune to a welfare project for mixed Asian and American parentage. The money will be used for Pearl S Buck Foundation which was formed in 1964.

Award for Scientific pursuit

Mr. H. N. Sethna, director of the Bhabha Atomic Research Centre, has been chosen by the University of Michigan to receive the special honour for contribution to science and scientific knowledge. The award has been specially created to honour the brilliant university alumni.

3 Spray steelmaking

The new technique of spray steel-making, developed by the British Iron and Steel Research Association, seems to be a major breakthrough in steel technology. It helps to refine the blust furnace metal rapidly and continuously, leading to the production of a wide range of plain carbon and low alloy steels at highly competitive costs.

Socialist forum adopts an intensive plan for social progress

A convention of the Congress Socialist Forum here today adopted a ten-point plan for revitalising the Congress to enable it to play a "historically adequate role." The ultimate purpose is to bring a social reform through a series of activities.

4 Bismilla Khan to give concert in Canada and U. S.

Bismillah Khan the eminent Shahnai artists left this morning for Montreal Canada, to participate in the India week celebrations during Expo-67, to be held between June 28 and July 4. The eight-member troupe is scheduled to give commercial concerts in the U. S. A. after their Montreal programme.

Gujarat Textile Crisis

Gujarat's Minister for Industries, Mr. Jashwant Mehta, has sent an SOS to the Union Government asking it to take immediate steps to reopen seven textile mills in the State. Some other mills were on the verge of closing down, the message said. The Minister has suggested that the Centre should set up the proposed Textile Corporation immediately.

5 Seeds distributed

Hybrid jowar seeds and fertilizers sufficient for cultivation on 15000 acres of land have been distributed in Wardha district. Further distribution is in progress, this was stated at a meeting of divisional and district officers here yesterday. Among those attended the meeting were Dr. M. N. Desai, divisional commissioner, Nagpur and Mr. M. P. Sole, deputy director of Intensive Cultivation, and others.

A new chemical for undesirable fish

Nearly 20 years of research has culminated in a new chemical for ridding lakes, ponds and streams of undesirable fish. The chemical is called antimycin meaning anti-fungus and is toxic to certain kinds of fish in concentrations so dilute as to have almost no effect on other animal life. It is apparently absorbed by the gills and interferes with respiration.

6 An exhibition on technical progress in industry

A total of 1,045 foreign exhibitors from 33 countries will participate in the Ninth International Fair in Bonn (September 10-19) this year.

Division of exhibits are a characteristic feature of the Fair. This gives experts a better chance to review the technical standard of products exhibited by various producers.

Tributes to Artists

A joint meeting organised by the Federation of Art Institutions the Bombay Art Society and the Jehangir Art Gallery in Bombay on Monday mourned the death of Mr. V. P. Karmakar, the noted sculptor of Maharashtra, and Mr. J. A. Lalkaka, a well-known portrait painter.

7 Gujarat cultural group

A cultural group sponsored by the Gujarat Sangeet Nritya Natya Academy is currently touring the border areas of Kashmir.

The party has been arranging programmes for the entertainment of Jawans from August 23.

Encouragement to cultivators

The State Government has issued orders for grant of loans from the Central Co-operative Bank to cultivators who are members of co-operative societies. The loan will be given from the grants placed at the disposal of the collectors for purchase of inputs like fertilizers and fertilizer mixture.

8 Special plan for farming in U. P.

The Uttar Pradesh Government has drawn up a special agricultural plan for the coming kharif season for Mirzapur district where two successive years of drought have ruined crops. The plan envisages the supply of seeds under taggavi loans to farmers having below five acres. About Rs. 15 lakhs has been sanctioned.

Inter-state Living

"The Times of India"—News service.

Five students—four boys and a girl—from north-east India have arrived here in Gujarat as part of the Inter-state living programme of the students Brotherhood. They will stay here for a fortnight. The scheme is likely to contribute to the cultural and emotional integration.

9 Art exhibition on Germany

A photographic exhibition, "German cities—yesterday and today", organised by the Indo-German Cultural Society at the Artists' Centre, Radio House, Rampart Row, Bombay on Monday was opened by Maharashtra's Urban Development Minister, P. G. Kher.

Language Controversy

The language controversy found its echo at its morning's session of the All India Congress Committee.

A few minutes after Mr. G. L. Nanda began his speech in Hindi on the resolution on the need for a common language.

10 Drive to boost exports urged by U. N. Team

India should project itself in the world market as a rapidly developing manufacturing nation and launch an aggressive drive to sell its products.

This is one of the recommendations made by a U. N. export promotion delegation which visited India early this year to make a special study of the export potentialities of this country.

No more water scarcity now—scientist's dream

Scientists have already succeeded in extracting from the vast salty water of the oceans water that can quench the thirst of overpopulated cities and power that can run industries. This is a definite Contribution of Science towards meeting a basic problem.

11 Credit conditions turn favourable

The Bombay short-term money market was easy last week.

Funds seemed to be returned to banks from the mofussil centres. Consequently, the supply position was altogether favourable and borrowers were able to obtain their requirements at lower rates. The turnover of funds was of a fair size.

Competition for children's literature

Entries for the Union Education Ministry's competition for children's literature published after January 1, 1965 have invited for award of 15 prizes of Rs. 1,000 for each book or manuscript—two in Hindi and one each in other Indian language.

12 Ships by computer

There seems to be virtually no limit to the versatility of the computer. Its most recent use is in ship-building. Scientists have now devised a computer which can help to build "perfect ships".

If a shipping company desires a particular type of vessel, the specifications, operating costs, speed, the kind of cargo the ship will carry, etc. are fed into the computer. Within a few hours the computer has a "reply" ready.

New source of unlimited Energy

Scientists in the U. S. are seeking to develop an atomic power plant that produces more fuel than it uses. Called a breeder reactor, it holds promise of providing man with vast quantities of electricity at low cost.

At first glance the breeder reactor seems to reverse the law of nature. It provides simply a very efficient way of using fuel over a long period. This type of reactor is able to use only one to two percent of the latent energy in the uranium fuel.

13 Lineless Telephone

An experimental lineless telephone has been developed in the United States. A battery-operated portable unit connects with the telephone network via radio link to a fixed station which, in turn, is connected to a telephone line or extension line.

Unlike push-to-talk walkie-talkies, the cordless telephone provides simultaneous two-way conversation, as well as supervision (connecting and disconnecting), dialing and ringing. Designed to be carried on a belt or in an overcoat pocket. It now has a range of 100 to 1500 feet from the fixed station, depending upon the radio frequency environment.

Gujarat Raises Sales Tax

Mr. Mehta announced that the inter-state and intra-state sales tax would be raised from two to three percent, following the enhancement in the rate of central sales tax from 2 to 3%.

The rates of tax on coal, iron, steel and oilseeds had also been raised from 2 to 3%.

The multi-point sales tax would be raised from 2½ to 3% as in certain other neighbouring states.

All these enhanced sales taxes were estimated to bring in a revenue of Rs. 3.25 crores in the current year.

14 Annuity deposit to cover more people : Rates up

The Union Government has decided to reduce the exemption for the total annual income of Rs. 15,000 and also to raise the rate of percentages for making deposits above Rs. 25,000 on a slab basis.

The rate of annuity deposit will be raised from seven percent to nine percent.

Hybrid Cultivation

In a drive to augment food production, over 585,000 acres will be brought under hybrid cultivation this year.

Of this, bajri will be cultivated in 400,000 acres, maize in 19,500 acres, paddy in 160,000 acres and jowar in 6,000 acres.

Last year, bajri was cultivated in 68,349 acres, maize in 8,290 acres, paddy in 900 acres and jowar in 1,152 acres.

15 Seed Distributed

Hybrid jowar seeds and fertilisers sufficient for cultivation on 15,000 acres of land have been distributed in Wardha district. Further distribution is in progress. It was stated at a meeting of divisional and district officers here yesterday that the effective distribution of seeds would promote agriculture in the country.

Ground station for Satellite Communication

Work will start soon on the construction of the proposed ground station for global satellite communication at Arvi, near Poona. About 230 acres of land have been acquired. India's participation in the global satellite communication system, is already in operation in a number of countries including the U. S.

16 Pearl Buck Donates

Pearl Buck, the Nobel prize-winner novelist on Tuesday celebrated her 75th birthday by donating most of her seven million dollar fortune to a welfare project for mixed Asian and American parentage. The money will be used for Pearl S Buck Foundation which was formed in 1964.

Training Farm Proposed

Two agreements between the FAO and the National Committee for Freedom from Hunger campaign were signed here today.

Under one of the agreements, the Australian Committee for Freedom from Hunger campaign will assist India in setting up a training farm for young farmers at Visakhapatnam.

17 Gujarat Raises Sales Tax

The interstate and intra-state sales tax would be raised from two to three percent, following the enhancement in the rate of central sales tax from 2 to 3%.

The rates of tax on coal, iron, steel and oilseeds had also been raised from 2 to 3%.

The multi-point sales tax would be raised from 2½ to 3% as in certain other neighbouring states.

All these enhanced sales taxes were estimated to bring in a revenue of Rs. 3.25 crores in the current year.

Journalist Wins Award

An Indian Journalist, formerly of a New Delhi English daily, Mr. Sumer Kaul (29) has won the Henry N. Taylor award instituted in the name of the young U. S. newsman killed in the Congo in 1960, which includes a plaque and a travel grant to 'explore' the U. S.

18 Machines which protect earth

An anti-erosion machine, developed some engineers does simultaneously two jobs. The machine is designed for planting trees on steep slopes. It digs trenches and leaves behind small mounds of earth and furrows in which water from melting snow and rain collects. Such an anti-erosion system helps to fix the surface layer.

Scientific Probe Towards Venus

The despatch of instrumented probes towards Venus by the Soviet Union and within a few days space by the United States is not to be considered a race to that planet. The fact is that Venus is at the moment in the most favourable position for an earth-launched vehicle to fly by some four months later. The most significant information either probe may relay to us will be whether there is sufficient water on it. Without water and with a high temperature life as we know it is unlikely to have life on Venus.

19 Tamil Drama Festival

A three-day Tamil dance / drama festival will begin at Shanmukhanadda Auditorium on Friday under the auspices of UNF Cyrtarts, a newly formed organization aiming at fostering the cultural heritage of the country.

On Sunday a Bharat Natyam recital will be presented by Mayaram Sisters (Vasanthmala and Kalpana)

Industrial Goods Prices will not increase

The increase in the tax on goods vehicles in Mr. Wankhede's budget is not going to substantially affect the prices of industrial goods.

The immediate impact of the higher tax would probably be on the prices of perishable goods like vegetables and fruits most of which are brought to Bombay from the interior by farmers who themselves operate lorries.

20 Unesco prepares Blueprint of "Design for living" Project

The Indian National Commission for UNESCO moved today to evolve a concrete programme to give shape to the proposed "Design for Living" project in memory of Jawaharlal Nehru.

Technical improvement in Mini car

The model of small car is in the exhibition of the world fair New York. The mechanism is much simpler in these cars and their operation quite easy.

21 Fission Techniques

The Prime Minister Mrs. Indira Gandhi, replied in the affirmative to three crucial questions in the Lok Sabha today regarding Indian Scientists' acquaintance with atomic fission techniques. There are queries as to whether the scientists connected with nuclear works of the Atomic Energy Commission were acquainted with the know-how of: (1) fission technique of purified nuclear fuel amounting to its critical size; (2) mechanics of assembling fissionable fuel into its critical mass; and (3) preparing the blueprint necessary for fission of nuclear fuel equal to its limiting quantity.

Bill to set up Farm Varsity introduced

A Bill, seeking to establish an agricultural university in Maharashtra, was introduced in the Maharashtra Council by Mr. P. K. Sawant, Agriculture Minister on Friday.

RESEARCH STATION

Beside the constituent colleges the university will have at the headquarters within the campus colleges of agriculture (including animal husbandry) veterinary science, agricultural technology, agricultural engineering, home science, basic sciences and humanities and an institute for postgraduate studies.

22 Call for Research in Textile Engineering

Mr. Balkrishna Harivallabhdas president of the Ahmedabad Millowners Association has urged manufacturers of textile machinery to promote research in textile engineering to enable them compete with the products of other countries.

Art Education in States Makes Significant Advance

Maharashtra can now be said to have the most diversified and broadbased system of art education and a comprehensive programme of art activities. The Directorate of art, in its first annual report, has noted significant progress.

23 New Strain of Ragi Crop Developed

The results of research in the University of Agricultural Sciences, here has given new hope to cultivators of ragi, the "poor man's food." These crops were devastated by disease in the last two years.

The disease, first noticed last year, had caused heavy damage to the ragi crop in Bangalore, Kolar, Tumkur, Hassan, Mandya and Shimoga districts.

24 Kanungo opens Art show

A one-man show of the paintings of Dr. Dinesh Dave organised by the Ahmedabad Medical Society was inaugurated by Shri Nityanand Kanungo, Governor of Gujarat, here today.

The Governor Lauded the interest of Dr. Dave in painting and said that his paintings had belied the belief that doctors were concerned with medicine and patients. He said that it was the sensitivity of a person that took him to art despite the vocation or profession he pursued.

About 50 exhibits have been displayed at the show.

25 Facilities for Training Journalists

The Press Council of India is conducting an inquiry into the facilities available in the country for training in journalism, Mr. J. R. Mudholkar, chairman of the council said in Bombay on Monday.

He said that this was necessary if the press was to play its part boldly and tirelessly in a world where the demands on journalists were increasing.

Credit Conditions Turn Comfortable

The Bombay short-term money market was easy last week.

Funds seemed to be returned to banks from the mofussil centres. Consequently, the supply position was altogether comfortable and borrowers were able to obtain their requirements at lower rates. The turnover of funds was of a fair size.

Competition for children's literature

Entries for the Union Education Ministry's a competition for children's literature published after January 1, 1965 have invited for award of 15 prizes of Rs. 1,000 for each book or manuscript—two in Hindi and one each in other Indian language.

50 Scientists rewarded for inventions

More than 50 scientists have been given cash awards, ranged from Rs. 5,000 to Rs. 500.

Many of the awards given today here gone to inventors who have successfully replaced imported items by indigenous products, which to towards saving valuable foreign exchange.

26 Farmer sets up Record

A progressive farmer of Saurashtra has set a record by producing 105 grains of wheat per Spike

He told that he has achieved this by taking adequate plant protection measures and using good quality fertilisers. Mr. Bhanushali had produced 2229 kilo grams of hybrid bajri per acre during the last kharif season.

" Nine hours to Rhythm "

Gopi Krishna sets record 9 Hours' non-stop dance.

For nine long hours on Monday Gopi Krishna held the stage at Bombay's Patkar Hall and in those nine rhythm-filled hours he became the world's champion marathon dancer.

27 Surveyor hits moon but loses its voice

America's surveyor spacecraft hit the moon on Sunday night but lost its radio voice. It developed some mechanical trouble and was apparently damaged or destroyed during the final landing manoeuvre.

Annuity deposit to cover more people : Rates up

The Union Government has decided to reduce the exemption of the total annual income of Rs. 15,000 and also to raise the rate percentages for making deposits above Rs. 25,000 on a slab basis.

The rate of annuity deposit will be raised from seven percent to nine percent.

28 Exhibition of Engineering goods in Cairo

India's independence day celebrations in Cairo began this morning with the opening of an engineering exhibition at the India Trade Centre and were rounded off with an address by the Ambassador.

The exhibition featured a large variety of Indian machine tools heavy and light engineering goods and electronic equipments.

Crop Demonstration

The Indian Council of Agricultural Research has drawn up a multi-point programme for national demonstration of crops following a recent meeting on the subject.

The programme gives top priority to food grain crops in these demonstrations. It also stresses the need for good teamwork involving institutions, universities and research centres and scientific workers.

29 Many types of classical dances

Till recently the world knew only four types of Indian classical dances, namely, Bharat Natyam, Kathakali, Kathak and Manipuri. On the basis of recent and starting discoveries, it is now believed that there are at least nine schools of dancing prevalent in India.

India hopes to launch a Rocket to the Moon in 1970

A new Scientific Advance very recently a noted Indian Scientist has found possibility of launching a rocket to the moon from Thumba near Trivendrum. The rocket would be equipped with all modern scientific innovations for transmitting messages and photographs.

30 Spray Steel Making

The new technique of spray steel-making, developed by the British Iron and Steel Research Association, seems to be a major break through in steel technology. It helps to refine the blast furnace metal rapidly and continuously, leading to the production of a wide range of plain carbon and low alloy steels at highly competitive costs.

It is said that this technique of steel making reduces cost of production by 15 to 25 percent.

Golden opportunities for small units of industries

The banks were always anxious to help small scale industries and the finance given by them was much larger than shown. Now they are free to have more investments within the frame-work of planned economy under the scrutiny of the Reserve Bank.

Co-operative interest always tried to keep commercial bank away from the field on grounds of unequal competition by increasing the opportunity for the small scale industries.