

ಸಂಕೇತ ಸಂಖ್ಯೆ : 72

Code No. : 72

**CCE RR**

ವಿಷಯ : ಇಂಜಿನಿಯರಿಂಗ್ ಡ್ರಾಯಿಂಗ್

**Subject : ENGINEERING DRAWING**

( ಹೊಸ ಪಠ್ಯಕ್ರಮ / New Syllabus )

( ಪುನರಾವರ್ತಿತ ಶಾಲಾ ಅಭ್ಯರ್ಥಿ / Regular Repeater )

*General Instructions :*

- i) The Question-cum-Answer Booklet consists of 5 objective and subjective types of questions.
- ii) Space has been provided against each objective type question. You have to choose the correct choice and write the complete answer in the space provided.
- iii) For subjective type questions enough space for each question has been provided. You have to answer the questions in the space.
- iv) Follow the instructions given against both the objective and subjective types of questions.
- v) Candidate should not write the answer with pencil. Answers written in pencil will not be evaluated ( Except Graphs, Diagrams & Maps ).
- vi) In case of Multiple Choice, Fill in the blanks and Matching questions, scratching / rewriting / marking is not permitted, thereby rendering to disqualification for evaluation.
- vii) For reading the questions 15 minutes of extra time has been provided.
- viii) Do not write anything in the space provided in the right side margin.

**RR-0321**

[ Turn over

*Instructions :*

- i) Answer *all* the questions.
  - ii) Retain the constructional details.
  - iii) All dimensions are in mm.
  - iv) Use first angle projection only.
  - v) Missing dimensions may be assumed.
  - vi) All drawings should be drawn in drawing sheet only.
1. a) Fill in the blanks with the correct figure/word(s) by selecting from the choices given in the brackets : 5 × 1 = 5
- i) In orthographic projections the visual rays are assumed to ..... .  
( *diverge from station point, converge from station point, be parallel* )
  - ii) Objects that are symmetric can be shown effectively using ..... .  
( *full section, half section, quarter section* )
  - iii) The front view of an object is projected on the ..... .  
( *horizontal plane, vertical plane, profile plane* )
  - iv) A right circular cone when cut by a plane parallel to its generator, the curve obtained is a/an ..... .  
( *ellipse, parabola, circle* )
  - v) The length of scale with R.F. =  $\frac{1}{40}$  to measure up to 6 metre will be ..... .  
( *15 cm, 10 cm, 12 cm* )

b) Match the following :

5 × 1 = 5

**Group A**

**Group B**

- |                     |   |
|---------------------|---|
| i) Knuckle thread   | a) used for transmission of power               |
| ii) Acme thread     | b) used in the screw of a bench vice            |
| iii) Square thread  | c) used in the two railway carriage<br>coupling |
| iv) Buttress thread | d) used in the lead screw of a lathe            |
| v) B.A. thread      | e) used for small instrument screws             |
|                     | f) used for gas steam or water pipes.           |
2. a) Draw three circles inside a hexagon of 40 mm side such that each circle touches two sides of the hexagon and two other circles. 5
- b) Print the following in single stroke inclined capital letters of height 18 mm with 6 : 5 ratio. 5
- 'BRAZING'
3. a) Construct an ellipse having major axis 100 mm and minor axis 65 mm by concentric circle method. 5
- b) Two points *A* and *B* are 110 mm apart. Point *C* is 90 mm and 60 mm from *A* and *B* respectively. Draw a parabola passing through points *A*, *B* and *C*. 5
4. a) Configure (draw) lines of length of 100 mm used for
- |                     |   |
|---------------------|---|
| i) Visible outlines |   |
| ii) Dimension lines |   |
| iii) Hidden lines.  | 3 |

