

Total No. of Questions : 8]

SEAT No. :

P-9075

[Total No. of Pages : 3

[6178]-10

F.E.

ENGINEERING GRAPHICS - I
(2019 Pattern) (Semester - II) (102012)

Time : 2½ Hours]

[Max. Marks : 50]

Instructions to the candidates:

- 1) Answer Q. 1 or Q. 2, Q. 3 or Q. 4, Q. 5 or Q. 6 and Q. 7 or Q. 8.
- 2) Figures to the right indicate full marks.
- 3) State clearly the assumptions made, if any.
- 4) Use of non-programmable calculator is allowed.
- 5) Assume suitable data, if necessary.

Q1) Construct a Parabola by focus-directrix method, if the distance of focus from the directrix is 70 mm. **[8]**

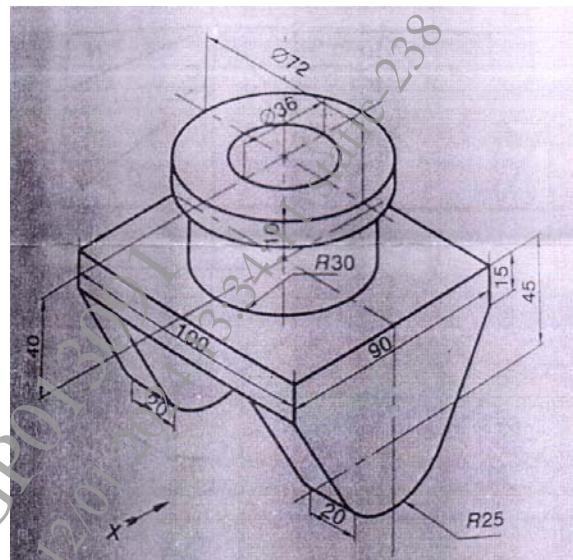
OR

Q2) End P of inelastic thread, 160 mm long is attached to the circumference of a circular disc of 50 mm diameter. Draw the locus of free end Q of the thread, if it is completely unwound from the disc, keeping the thread always tight. Name the curve. **[8]**

Q3) Fig. shows pictorial view of an object (consider diameter 36 hole is throughout the object). Using first angle method of projection draw. **[16]**

- a) Front View **[5]**
- b) Top View **[5]**
- c) Right Hand Side View **[5]**
- d) Give Dimensions **[1]**

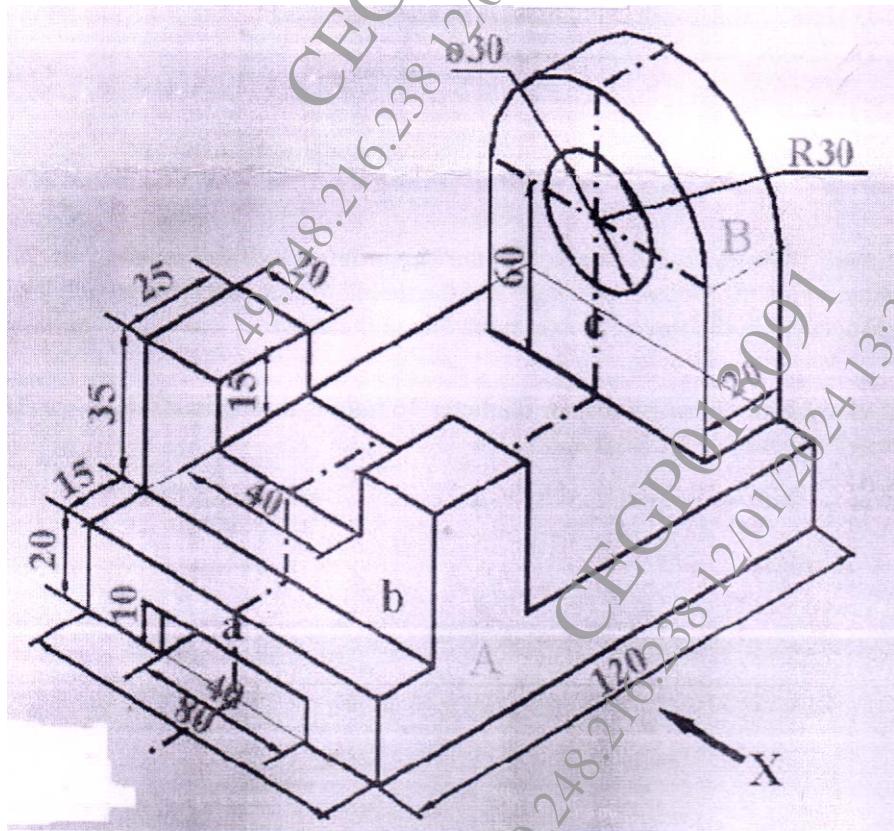
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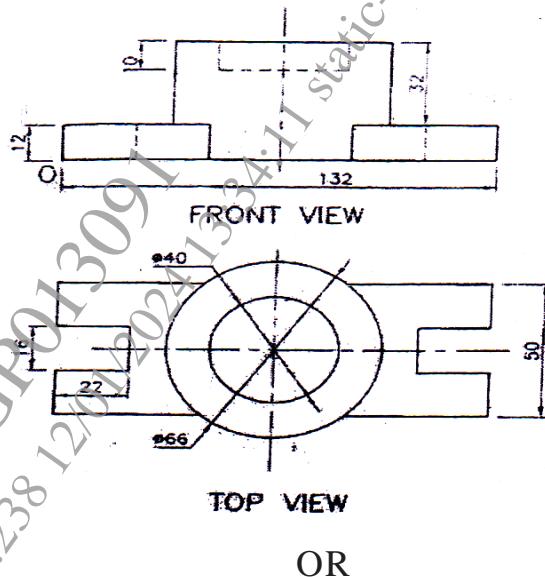
OR

Q4) Fig. shows pictorial view of an object. Using first angle method of projection draw :

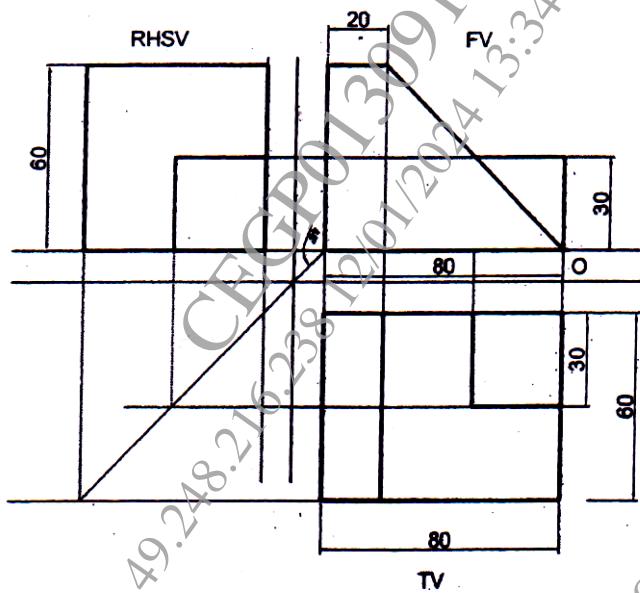
- a) Sectional front view along symmetry line in the x direction [5]
- b) Top view [5]
- c) Left hand side view [5]
- d) Give dimensions [1]



Q5) Figure show orthographic views of an object by first angle method of projection. Draw its isometric view. [16]



Q6) Figure show orthographic views of an object by first angle method of projection. Draw its isometric view. [16]



Q7) Draw the development of lateral surface of a hexagonal pyramid having base edge 30 mm, axis height 80mm, is kept on HP in such a way that one of its base edges is perpendicular to VP. [10]

OR

Q8) A right cylinder of 50mm diameter and 70mm height of axis is cut by a section plane inclined at 30° to HP and passes 30 mm from base along the axis. Draw a development of truncated cylinder. [10]

