Total No. of Questions : 8]

SEAT No. :

P4403

[Total No. of Pages : 3

[5458]-110

F.E.

ENGINEERING GRAPHICS - I

(2015 Pattern)

Time : 2 Hours] *[Max. Marks : 50*

Instructions to the candidates:

1) ***Solve Q.1 or Q.2, Q.3 or Q.4 , Q.5 or Q.6, Q.7 or Q.8.***
2) ***Neat diagrams must be drawn, wherever necessary.***
3) ***Figures to the right indicate full marks.***
4) ***Use of electronic pocket calculator is allowed.***
5) ***Assume suitable data, if necessary.***

Q1) The point M of line MN is in HP while its other end N is 50 mm above HP and 80 mm in front of VP. The line is inclined to VP at an angle of 30°. Draw the projections of a line if its elevation makes 29° with HP. Find true length of line and the inclination made by the line with HP. Also, locate the traces of line. **[12]**

OR

Q2) Pentagonal plate of 25 mm side has one of its side in the VP & parallel to HP. The surface of plate makes an angle of 30° with VP. Draw its projections & find inclination of plate with HP. **[12]**

Q3) A square prism, side of base 40 mm and height 80 mm is kept on the HP on one of its corner of base edge in such a way that its axis makes an angle of 35° to the HP and VP. Draw the projection of the prism. **[13]**

OR

Q4) a) Draw a parabola by focus directrix method if focus is 60 mm from directrix. **[7]**

b) Draw the development of hexagonal prism with base side 25 mm and axis height 60 mm. **[6]**

P.T.O.

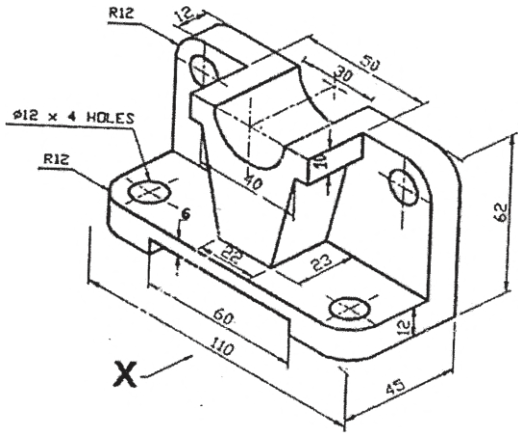
Q5) ***Figure*** shows isometric view of a shaft support. Draw following views:**[13]**

a) Front View looking in the direction of X.

b) Top View.

c) Sectional Right hand side view, section along line of symmetry.

d) Show all dimensions.



(All dimensions are in mm)

OR

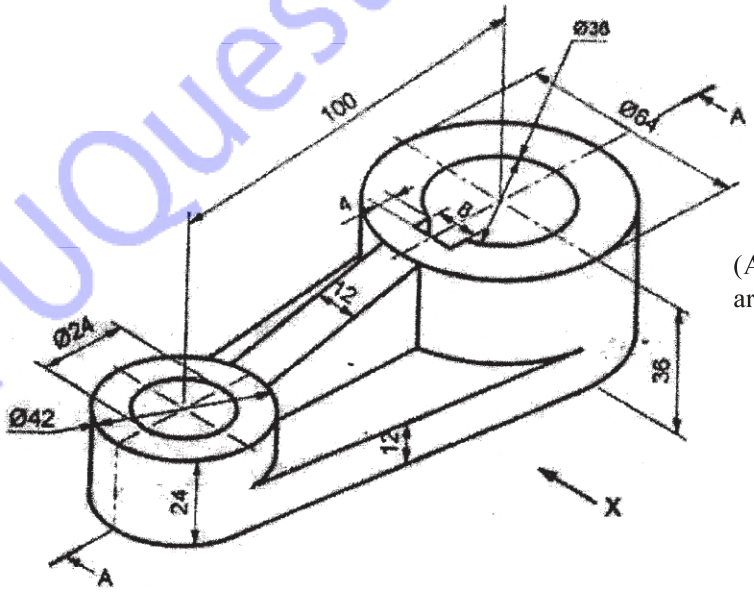
Q6) ***Figure*** shows isometric view of a Machine component. Draw following views: **[13]**

a) Sectional Front View looking in the direction of X (Section A-A)

b) Top View

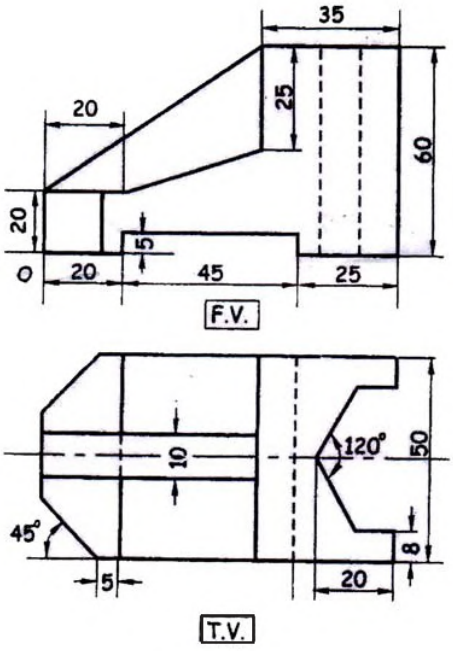
c) Left hand side view

d) Show all dimensions



(All dimensions are in mm.)

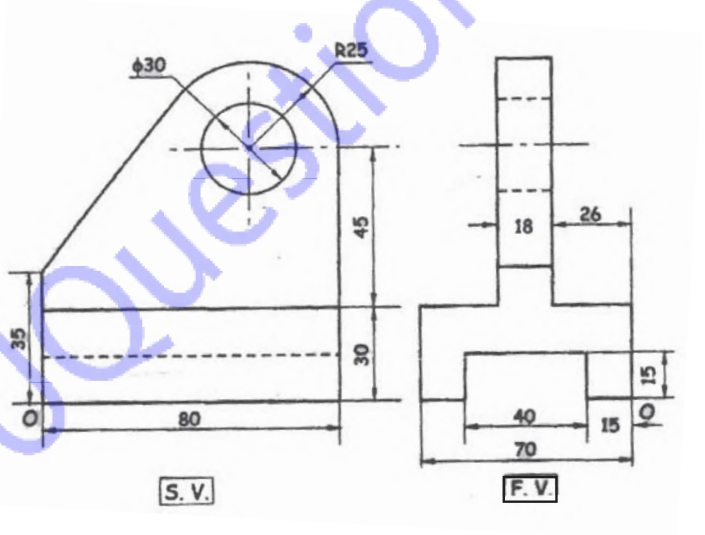
Q7) Figure shows front view & top view of object, Draw isometric view & show overall dimensions. **[12]**



(All dimensions are in mm.)

OR

Q8) Figure shows front view & right hand side view of object, Draw isometric view & show overall dimensions. **[12]**



(All dimensions are in mm.)

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