Total No. of Questions :8]

SEAT No. :

P4023

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[5351] - 103

F.E. Engineering

ENGINEERING GRAPHICS - I

(2015 Pattern) (Semester - I)

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

Instructions to the candidates:

1) ***Retain all construction lines.***
2) ***Figure to the right indicates full marks.***
3) ***Assume suitable data wherever necessary.***
4) ***Use of electronic pocket calculator is allowed (non-progammable).***

Q1) A line AB resting in the first quadrant has it's end A is 30 mm from the H.P. and in the V.P. End B is at 30 mm in-front of V.P. Draw projections of the line if , its elevation makes 39° inclination to H.P. plan makes 30° inclination to V.P. Draw its projections and locate the traces. **[12]**

OR

Q2) A hexagonal plate ABCDEF of 35 mm size is resting on its corner F on the H.P. Draw projections of the plate when the plate surface makes an angle of 35° to H.P. and plan of the FC makes 40° inclination to V.P. **[12]**

Q3) A hexagonal pyramind of base 35 mm and height 85 mm is resting on one of its base corners. The slant edge passing through resting corner makes 35° inclination to H.P. Draw projections of the pyramid when the plan of axis makes 40° inclination to V.P. **[13]**

OR

Q4) a) Draw a conic section when eccentricity ration is one. The distance between fixed line and focus is 50 mm; Name the curve and give all necessary dimensions. **[7]**

P.T.O.

b) Draw the development of lateral surface of hexagonal prism of base side 25 mm and axis height 65 mm. **[6]**

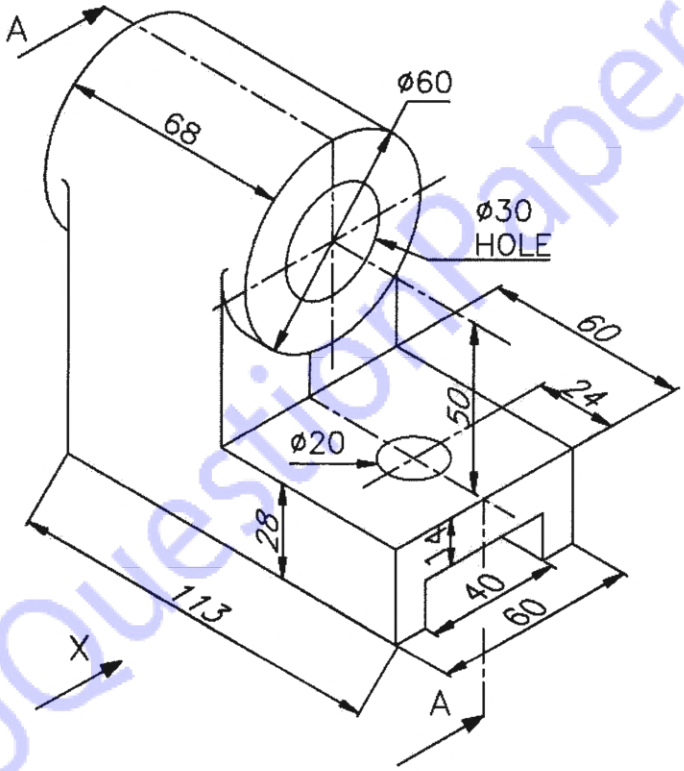
Q5) For the pictorial view shown in the Figure draw, **[13]**

a) Sectional Front view in the direction X (along section AA)

b) Top view

c) Right hand side view

Place all necessary dimensions. Use first angle method of projections.



OR

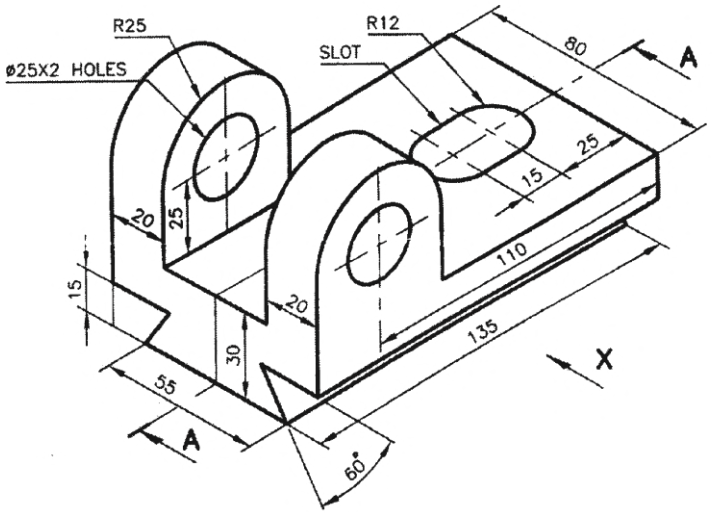
Q6) For the pictorial view shown in the Figure draw, **[13]**

a) Sectional front view along the section AA

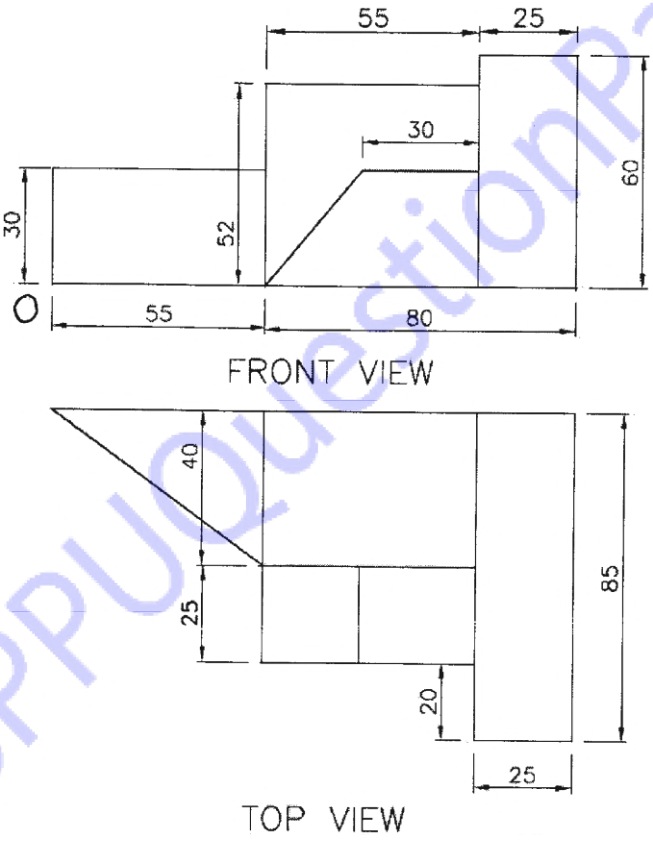
b) Top view

c) Left hand side view

Place all necessary dimensions. Use first angle method of projections.

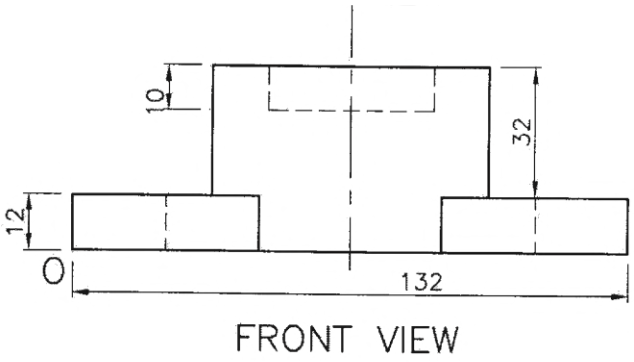


Q7) Figure shows front view and top view of an object. Draw Isometric view and show overall dimensions. **[12]**

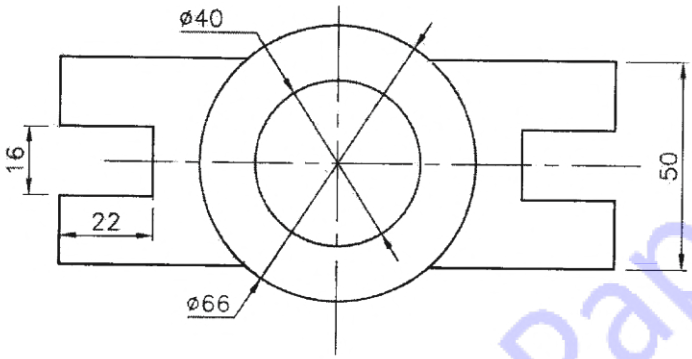


OR

Q8) Figure shows front view and top view of an object. Draw Isometric view and show overall dimensions. **[12]**



FRONT VIEW



TOP VIEW