

Total No. of Questions : 8]

SEAT No. :

P658

[4456]-107

[Total No. of Pages : 3

F.E. (Semester - I & II) (Phase - IV)
ENGINEERING GRAPHICS - I
(2012 Course)

Time : 2 Hours]

[Max. Marks : 50

Instructions to the candidates:

- 1) *Use only half imperial size drawing sheet as answer book.*
- 2) *Retain all construction lines.*
- 3) *Assume suitable data if necessary.*

Q1) The point P of 75 mm long line PQ is 25 mm above HP while its end point Q is 20 mm in front of VP. Its elevation makes 40° with HP while, the projector distance between the end points of line is 60 mm. Draw the projections of a line and find the inclinations made by it with HP and VP. Also, locate the traces of line. **[12]**

OR

Q2) A hexagonal plate, base side 40 mm, is resting in HP on one of its corner with its side parallel to VP. Then, its surface is inclined to HP at 40° . Draw the projections, if its top view line passing through resting corner and its opposite corner, is inclined to VP at an angle of 35° . Also find the inclination made by the plate with VP. **[12]**

Q3) A cone of base diameter 60 mm and axis height 80 mm is resting in HP on one of its base circumference point. Then, its base surface is inclined to HP at 60° . Draw the projections, if its axis is inclined to VP at 35° , with its apex away from the observer. **[13]**

OR

Q4) a) Construct a parabola by rectangle method, if the base is 60 mm and axis height is 80 mm. **[7]**
b) Draw the development of a hexagonal prism with base side 25 mm and axis height 50 mm. **[6]**

Q5) Figure 1 shows a pictorial view of an object. By using first angle method of projections, draw;
i) Sectional Left hand side view, along given section plane **[4]**
ii) Front view **[4]**
iii) Top view **[4]**
iv) Dimensions **[1]**

P.T.O.

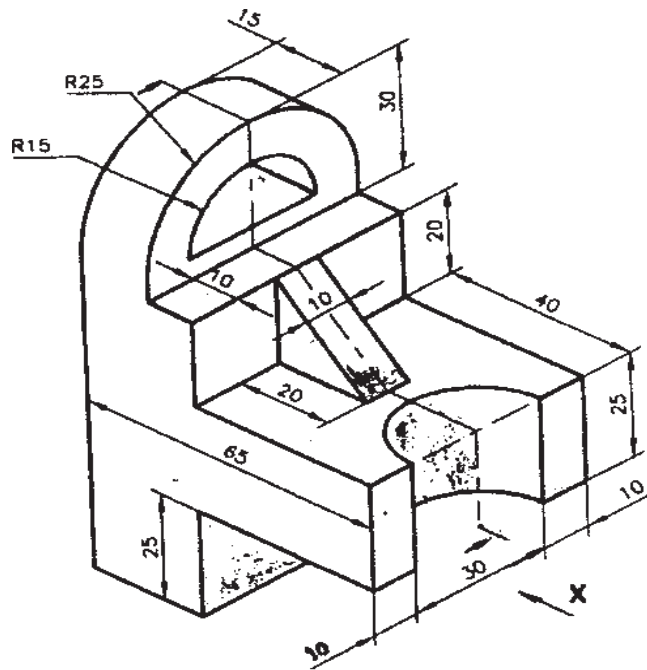


Figure 1

OR

Q6) Figure 2 shows a pictorial view of an object. By using first angle method of projections, draw;

- i) Sectional front view, along sectional plane A-A [4]
- ii) Left hand side view [4]
- iii) Top view [4]
- iv) Dimensions [1]

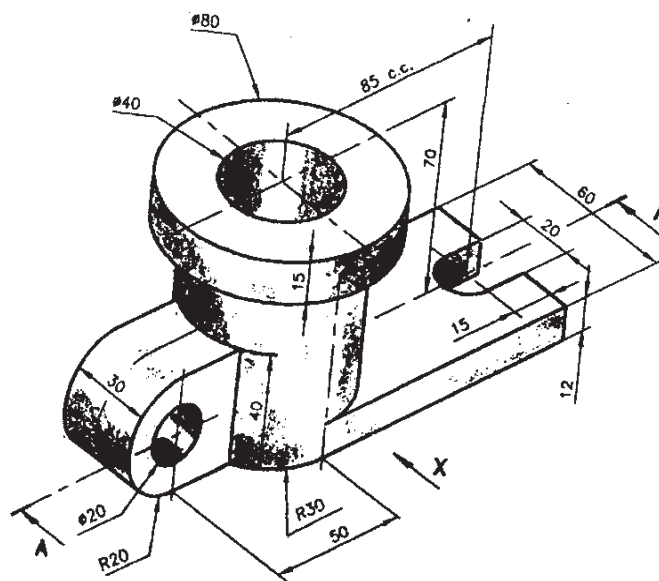


Figure - 2

Q7) Figure 3 shows front view, top view and end view of a bracket. Draw isometric view and show overall dimensions. [12]

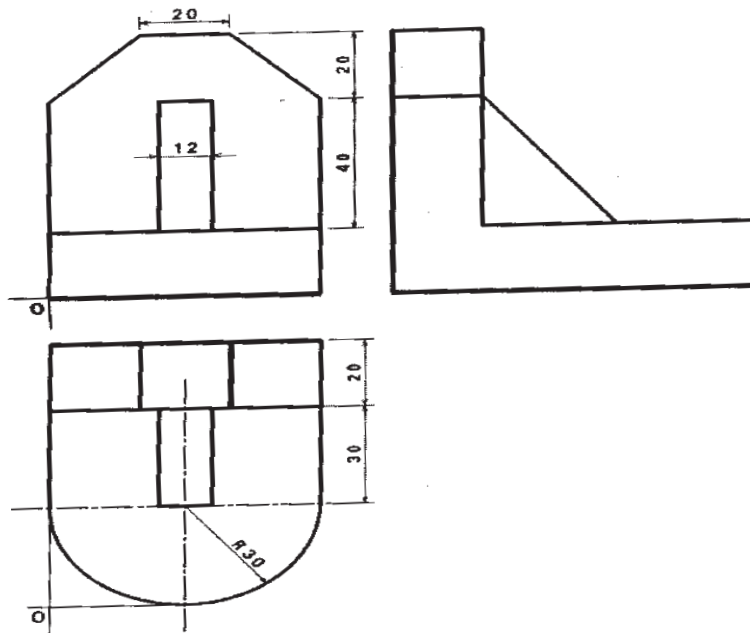


Figure - 3

OR

Q8) Figure 4 shows front view and top view of an object. Draw isometric view and show overall dimensions. [12]

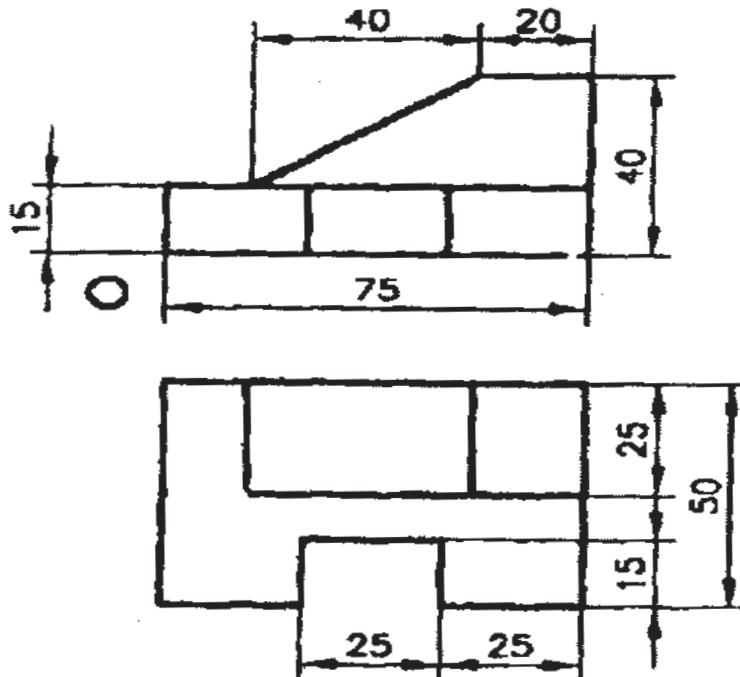


Figure 4

❧❧❧❧