



End Term Examinations (April/May 2019)

School: School of Engineering

Program: B Tech (MACT/DS/CTIS)

Course: Computer Aided Engineering Graphics

Course Code: ENG106

Semester: II

Max Marks: 40

Duration (mins): 120 mins

Q1) Solve any two:

[16 Marks]

- The elevation of a straight line CD is 60mm long and is inclined at 60° to the XY. The end point C is 15 mm above HP and 20 mm in front of VP. Draw the projections of the line if it is inclined at 30° to the HP. Draw the projections.
- An isosceles triangle ABC having its base AB=40 mm and altitude 60 mm is resting on the VP on its base AB. Draw the projections of the plane when its surface is inclined to VP at an angle of 45° and the base AB which is on the VP is making an angle of 50° to the HP.
- Construct an ellipse when the distance of the focus from the directrix is equal to 50 mm and the eccentricity is $2/3$.

Q2) Solve any two:

[24 Marks]

- A square pyramid, with the side of its base 40 mm and axis 70 mm long is lying on one of its base edges on the H.P. in such a way that this base edge makes an angle of 45° with the V.P. and the axis is inclined at 30° to the H.P. Draw the projections of the solid.
- For the object shown in Figure 1, draw the following views, using first angle Method of Projection.
 - Elevation looking in the direction of arrow 'X'
 - Plan
 - Side View in the direction of Y

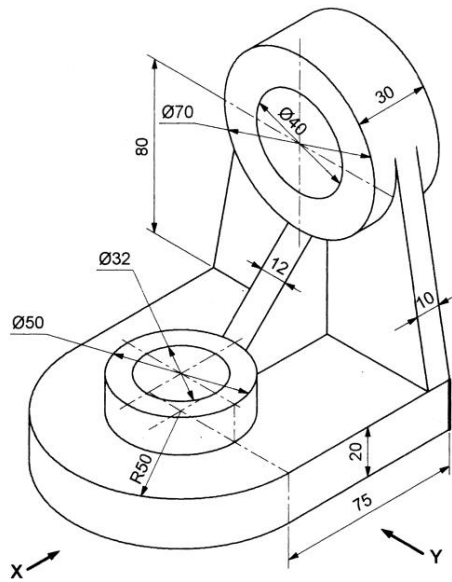


Fig No 1

c) Figure 2 shows front view, Top view and End View of a bracket. Draw isometric view and show overall dimensions.

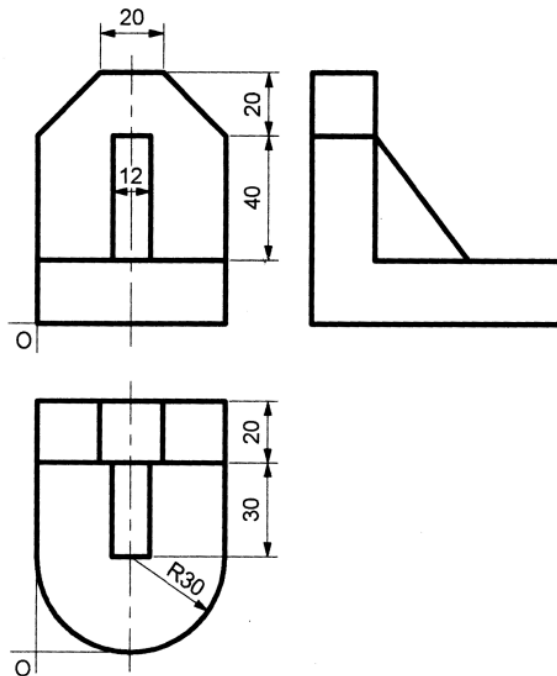


Fig No 2