Code.No: 09A10291 | R09 | SET-1

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
I B.TECH - REGULAR EXAMINATIONS JUNE - 2010
ENGINEERING DRAWING
(COMMON TO EEE, EIE, ECC)

Time: 3hours **Max.Marks:75**

Answer any FIVE questions
All questions carry equal marks
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1(a) Draw a scale of 10 centimeters = 3 decameters to show decameters and meters. Show the lengths of 33 meters and 11 meters on it.

(b) Draw an ellipse by focus-directrix method when the distance of the focus from the directrix is equal to 60 mm and the eccentricity is 2/3. [15]

2. A 90 mm long line PQ is inclined at 45^0 to the H.P and 30^0 to the V.P. Its end P is in the H.P. and 40 mm in front of the V.P. Draw its projections keeping the end Q in the fourth quadrant. [15]

3. A pentagonal pyramid, having a base with a 30 mm side and a 70 mm long axis, has one of the corners on the ground with its axis inclined at 45^0 to the H.P. A vertical plane containing the axis and that corner is inclined at 30^0 to the V.P. Draw its projections. [15]

4. A square prism has its shorter edge in the VP. Its axis is parallel to the HP and is inclined at 50° to the VP. The prism is cut by an AIP inclined at 45° to the HP and passing through the midpoint of the axis. Draw the Front View, Sectional Top View, and Side View. The base side of the prism is 40 mm and its length of axis is 80 mm. [15]

5. A triangular prism, having base with a 60 mm side and a 100 mm long axis, is resting on its base on the H.P. with a nearer face parallel to the V.P. It is penetrated by a cylinder with a 50 mm diameter and a 90 mm long axis. The axis of the cylinder is parallel to both the reference planes, and 15 mm away from the axis of the prism towards the observer. Draw the projections of the combination and show the curves of intersection. [15]

6. Draw an isometric view of a pentagonal prism having a base with 30 mm side and 60 mm long axis, resting on its base in H.P. with a face parallel and nearer to the V.P. [15]

7. Draw the front view, top view and side view of the object whose isometric view is shown in the Figure 1 below (All dimensions are in mm). [15]

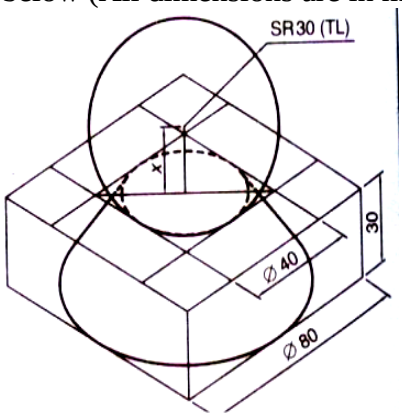


Figure 1

8. Draw a perspective view of a square plane with a 60 mm side resting on the GP with one of its corners touching PP, and a side right to the corner inclined at 30^0 to it. The station point is 50 mm in front of PP, and 60 mm above GP, and lies in a CP which is 40 mm towards right of the corner touching the PP. [15]

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