Code No: 09A10591 **R09**

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, HYDERABAD

B. Tech I Year Examinations, May/June-2013

ENGINEERING DRAWING

(CSE)

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

Answer any five questions

All questions carry equal marks

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1. The major and minor axes of an ellipse are given as 12 cm and 7.5 cm respectively. Draw the normal and tangent from a point 2cm. above the axis. Draw the ellipse by arcs of circles method.

2. The top view of a line 70 mm long measures 60mm, while the length of front view is 50mm. Its one end is 8 mm infront of V.P and 12 mm. above H.P. Draw the projections of the line and determine its inclinations with H.P and V.P.

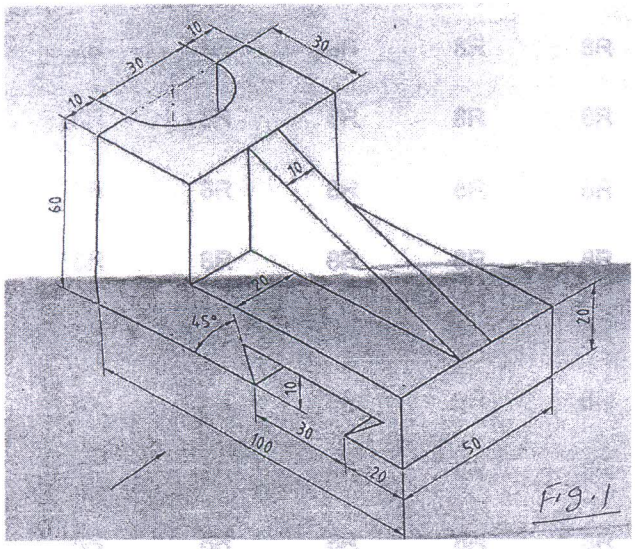
3. A Hexagonal pyramid of base edge 25 mm. and height 70 mm rests on one of its base edges an HP such that the edge is inclined at 30^0 to V.P and its axis makes an angle of 45^0 to H.P. Draw the projections of the pyramid.

4. A cylinder of 50 mm diameter and height 70mm rests on its base on the ground. A slot of shape of an equilateral triangle of side 25 mm. is cut through the cone, so that its axis is perpendicular to V.P. and bisects the axis of the cylinder at right angles. Draw the development of the lateral surface of the cylinder with the slot.

5. A vertical cylinder of 60 mm diameter height 100mm is penetrated by another cylinder of same size. The axis of the penetrating cylinder is parallel to both H.P and V.P and 6 mm away from the axis of the vertical cylinder and nearer to the viewer. Draw the projections showing the curves of intersection.

6. Draw the Isometric projection of a cylinder of 6cm diameter and height 6 cm when the axis is a) vertical b) horizontal

7. Draw three views for the component shown in Fig. 1



All dimensions are in mm.

8. A square prism of side of base 40 mm and height 60mm rests with its base on the ground such that one of the base edges is inclined at 35^0 to the pp and one of the vertical edges is in pp. The station point is 30 mm infront of pp and 80 mm above the ground plane and lies in a central plane 40 mm to the right of the centre of the prism. Draw the perspective view.

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