

MLR INSTITUTE OF TECHNOLOGY

(An Autonomous Institution)

B.Tech I Year I Sem Examinations , January-2016

ENGINEERING DRAWING

(Electronics and Communication Engineering)

Time : 3 hours

Max.Marks :75

1. Draw an ellipse by concentric circle's method, given the major and minor axes as 80 mm and 50 mm respectively. 15M

(OR)

2. A circle of 45 mm diameter rolls along a straight line without slipping. Draw the curve traced out by a point P on the circumference for complete revolution of the circle. Name the curve.

15M

3. A straight line AB, 55 mm long makes an angle of 30° to the H.P. and 45° V.P. The end A is 12 mm in front of V.P. and 15 mm above H.P. Draw the projections of the line AB.

15M

(OR)

4. A room is 10 m long, 6 m wide and 4m high. An electric light hangs in the centre of the room by a wire 1.2 m long. The switch is situated in one corner of the room and 1.8 m above the floor level. Draw the top view and front view of the room and find the shortest distance of the switch from the light.

15M

5. A hexagonal prism, base edge 20 mm and height 50mm, is resting on an edge of its base on H.P. in such a way that the base makes an angle of 45° with H.P. Draw the projections of the prism. 15M

(OR)

6. Draw the projections of circular disc 80 mm diameter lies in a plane inclined at 45° to the H.P. and (a) the top view of the diameter making an angle of 30° with the V.P. (b) the diameter making an angle of 30° with the V.P. 15M

7. A right circular cone, diameter of base 40 mm and height 65 mm rests on its flat end on H.P. The front view is cut by a plane passing through the mid-height point of the cone at an angle of 45° to H.P. Draw the development of the truncated cone. 15M

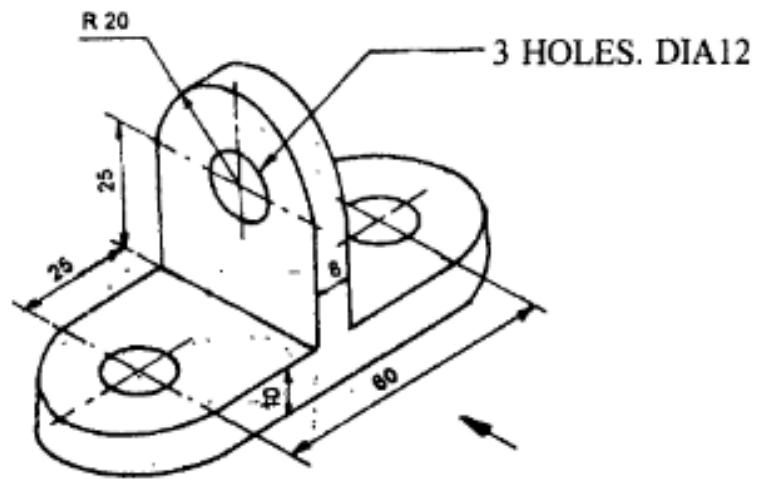
(OR)

8. A hexagonal prism of 25 mm edges and 50 mm long stands on its base with one base edge inclined at an angle of 40° to V.P. It is cut by a section plane inclined at 35° to H.P. which passes through the point 35 mm from the base along its axis. Develop the lateral surface of the truncated prism. 15M

9. A cube of 30 mm sides rests on the top of a cylindrical slab of 60 mm diameter and 20 mm thick. The axes of the solids are in the same straight line. Draw an isometric projection of the solid. 15M

(OR)

10. Draw the front view, top view and left side view of a given object by first angle projection method. 15M



All dimensions are in mm