

Roll No.

Total Pages : 3

8218**BT-2/M-12****ENGINEERING DRAWING****Paper-ME-105-E**

Time Allowed : 3 Hours]

[Maximum Marks : 100

Note : Attempt any five questions in all.

1. (a) Determine :

- (i) Continuous thick line.
- (ii) Continuous thick straight line.
- (iii) Dashed thick line.
- (iv) Dashed thin line.

(b) Draw conventions for

- (i) Steel, Cast Iron, Copper, Aluminium and its alloy's
- (ii) Lead, Zinc, Tin etc.
- (iii) Glass.
- (iv) Earth.

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8218/K/235/4,500

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2. Draw the projections of the following points in different quadrant. 20

- (i) Point A, 25 mm in front of V.P. and 30 mm above H.P.
- (ii) Point B, 22 mm behind of V.P. and 28 mm above H.P.
- (iii) Point C, 28 mm behind of V.P. and 30 mm below H.P.
- (iv) Point D, 40 mm in front of V.P. and 25 mm below H.P.

3. A straight line AB, 55 mm long makes an angle of 30° to the H.P. and 45° to the V.P. The end A is 12 mm in front of V.P. and 15 mm above H.P. Draw the projections of line AB. 204. A straight line AB 60 mm long makes an angle of 25° to the H.P. and 55° to the V.P. The one end of the straight line AB lies in the H.P. and is 20 mm in front of V.P. Draw the projections of line AB. 205. A cylinder 25 mm diameter and 45 mm long is resting on its circular rim with its axis inclined at 45° to the V.P. and parallel to the H.P. Draw the projections. 206. A right circular cone, base diameter 50 mm and axis 80 mm long is so placed on the horizontal plane that the axis make an angle of 45° with H.P. and 30° with V.P. Draw its projections. 207. A right cylinder of 30 mm diameter and 35 mm height of axis is cut by a section plane inclined at 30° to H.P. and passes 18 mm from base along the axis. Draw the development of truncated cylinder ? 20

8218/K/235/4 500

2

8. (a) Draw the top view, front view and right side view of a hexagonal nut for a bolt 24 mm diameter by the I.S.I. projections. 10
- (b) Draw the front view and side view of a square headed bolt of 24 mm diameter and 96 mm long with a hexagonal nut. 10