

II/SEM/COMMON/2019(S)NEW

ENGINEERING DRAWING

[PRACTICAL-3(a)]

FULL MARK :100

TIME : 3 HOURS

Answer any six questions including Q NO. 8

Figures in the right-hand mark indicate marks.

1. Construct a diagonal scale of R.F = 1 : 250 to show meters and decimeters and long enough to measure upto 40m. Show distances of 34.6m & 21.9m on the scale. [15]
2. Construct an ellipse by arc of circle method ,when the length of major and minor axes are 100mm and 70mm respectively. [15]
3. Construct a parabola by eccentricity method ,when the distance between focus and directrix is 60mm. <http://www.sctevtonline.com> [15]
4. A regular hexagonal plate of side 50mm lies 20mm above H.P. with two of its base side parallel to H.P . The plate is lying 25mm in front of V.P and inclined 45° to V.P and perpendicular to H.P. Draw the projections of the plate . [15]
5. A cone lying with its base on the H.P and is cut by a horizontal cutting plane parallel to H.P and at a distance of 40mm above H.P . The diameter of the cone is 60mm and height is 70mm .Draw the projection of the sectioned top view of the cone . [15]
6. A line AB 85mm long has one end 15mm above H.P and 25 mm in front of V.P. The line is inclined at 35° to H.P and 50° to V.P . Draw the projections of the line. [15]
7. Draw the isometric view of a hexagonal prism of side of base 25mm, height 70 mm with axis horizontal. [15]

8. Draw the following views of a building from the specification given below adopting a suitable scale.

(a) Plan at window sill level [15]

(b) Elevation [10]

SPECIFICATION :

1. Room size =7000×4000
2. Wall thickness =300
3. Plinth projection = 50
4. Plinth height =450
5. Chajja projection=500
6. Thickness of slab=150
7. Front verandah wide=3000
8. Pillar =300×300
9. Step=250×150
10. Door=1200×2100 (provide one door in the front wall of room)
11. Window=1000×1500 (provide two windows each on front and back wall of room and one each in the side wall of room.
12. Ceiling height of room and verandah =3500
13. Parapet height =600

Missing data if any may be assumed suitably. The dimensions are in mm

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