

I- SEM COMMON / 2019(W) / (NEW)
PR. – 3A (ENGINEERING DRAWING)

Full Marks: 100

Time : 3 Hours

Answer any FIVE Questions including Q No. 1 & 7

Figures in the right hand margin indicates marks

1	a) Draw a title block as per B.I.S. for student use in the class room.	5
	b) What is Auto CAD? Write down the commands required to draw a circle with centre (10, 10) and diameter 20 units.	5
2	Construct a diagonal scale to read kilometres and decametres, given that 1 Km is represented by 5 cm on the drawing. Mark a distance of 3.47 Km on the scale.	20
3	Construct an ellipse, with a distance of the focus from the directrix as 50 mm and eccentricity as $2/3$. Also draw normal and tangent to the curve at a point 40 mm from the directrix.	20
4	The plan of straight line PQ 85 mm long measures 70 mm while its elevation measures 55 mm. Its end P is in the HP and 20 mm in front of VP. Draw its projections and find the angle of inclination of the line with HP & VP.	20
5	A cylinder 60 mm in diameter and 70 mm long is resting on its base on ground. It is cut by a section plane perpendicular to VP and cuts the axis at a point 45 mm from the base making an angle of 40° to HP. Draw the sectional front view and true shape of the section.	20
6	Draw the isometric projection of a hexagonal pyramid, side of base 40 mm and axis 70 mm long, when its axis is horizontal.	20
7	Draw to a suitable scale the following views of a single room building with front verandah from the given specification. a) Plan at Window sill level b) Front Elevation	20 10

Specification:- (All dimensions are in mm)

Room Size = 5000 X 3500

Front Verandah = 2000 wide

Plinth Projection = 50

Plinth Height = 450

Chajja Projection = 450

Slab Thickness = 150

Door Size = 1200 X 2100 (1 No. in front wall)

Window Size = 1000 X 1500 (1 No. in front wall, 2 Nos. in back wall, 1 No. in each side wall)

Step Size = 300 X 150

Verandah Pillar Size = 300 X 300

Ceiling Height = 3500

(Assume any other data required suitably)

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