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ENGINEERING DRAWING

(Computer Science and Engineering)

Max. Marks: 70

1 Draw a hyperbola when the distance of focus from the directrix is equal to 50 mm and eccentricity is $\frac{3}{2}$.

OR

2 A circle of diameter 40 mm rolls inside another circle of radius 60 mm. Draw the hypocycloid traced by a point on the rolling circle initially in contact with the directing circle for one revolution.

3 A point P is 20 mm above HP and 15 mm in front of VP. Draw the front view, top view and left side view.

OR

4 A point P is 10 mm above HP and 25 mm in front of VP. Point Q is 50 mm above HP and 45 mm in front of VP. The distance between the projectors is 55 mm. Draw the projections and draw the projection of line joining P & Q.

5 A 60 mm long line AB is parallel to VP and inclined at 30° to HP. One end A is 30 mm above HP and 15 mm in front of VP. Draw the projections of the line.

OR

6 End A of a line AB is 10 mm above HP and 20 mm in front of VP. The other end B is 45 mm above HP and 65 mm in front of VP. The distance between the projections and find the length and true inclinations using half cone method.

7 A pentagonal prism of base 30 mm, height 65 mm stands such that its base is parallel to and 10 mm above HP with a base edge parallel to VP. Draw the projection.

OR

8 A square pyramid of base side 35 mm and height 45 mm rests on the ground with a base on the ground and one edge of the base parallel to VP. It is cut by a plane perpendicular to VP, 50° to HP meeting the axis at 25 mm above HP. Draw the lateral surface.

9 Draw the isometric projection of a rectangular prism of base 50 mm x 40 mm and height 75 mm, when rests with its rectangular faces is parallel to VP.

OR

10 Draw the three orthographic views of the object shown in figure.

