# PAPER CODE : 29706

**Duration - 3 Hours** **Total marks - 60**

NOTE:

a. Use First Angle method of projections only.
b. Use your judgement for any unspecified dimension.
c. Retain all construction lines.
d. Figures to the right indicate full marks.
e. All dimensions are in mm.
f. Show necessary dimensions.

Q1) Solve any one questions out of two (10)

a) A line AB 70 mm long, has its end A 20 mm above the H.P. and 25 mm in front of V.P. The end B is 40 mm above the H.P. and 65 mm in front of the V.P. Draw the projections of AB and show its inclinations with the H.P. and V.P.

b) An in-elastic string, of 125 mm length, is wound round a cylinder of 46 mm diameter, keeping the string always tight. Draw the curve generated by end point of string. Name the curve.

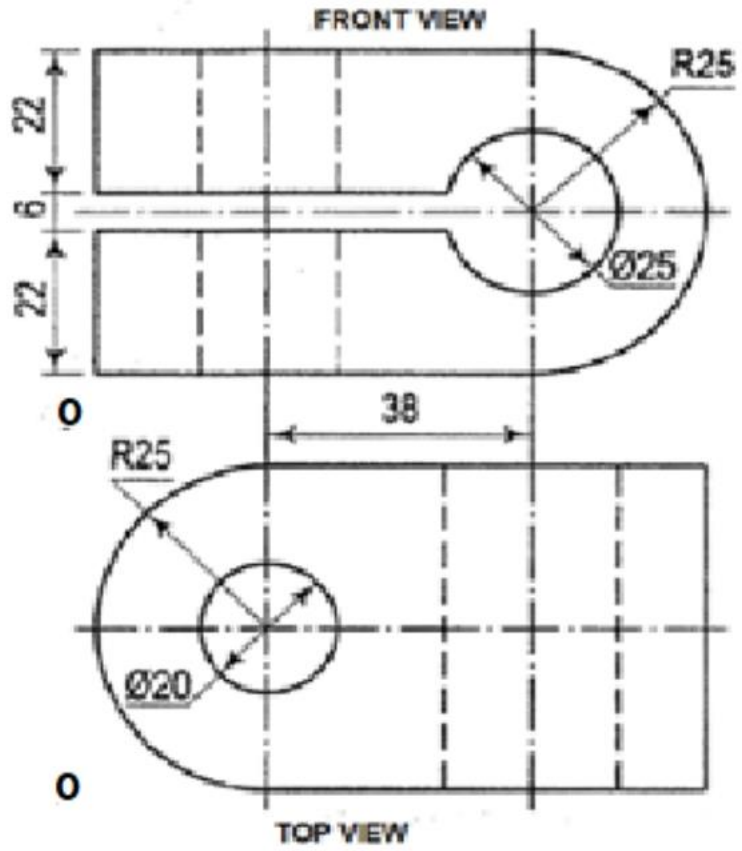
Q2) Solve any one questions out of two (15)

a) A cylinder of diameter 50 and axis 70 mm long is resting on a point of its base on H.P. with axis inclined at 40° to H.P. The top view of the axis is inclined at 40° to XY line. Draw the projections of cylinder.

b) A cone diameter of base 70 mm and height of axis 80 mm is resting on a point of its base circle on H.P. with the axis making $30^0$ with the V.P. The front view of the axis is inclined at 40° to XY line. Draw the top view and Front view.

Q3) Solve any one questions out of two (15)

a) Draw isometric view of an object whose views are shown in Figure.




b) A pentagonal pyramid, base edges 25 mm and axis length 50 mm long has one of its triangular faces in the V.P. and edge of the base contained by that face makes an angle of 30° with H.P. Draw its projections.

Q4) For the object shown in figure draw the following views (20)

(i) Sectional front view along section A-A.
(ii) Top view
(iii) Left hand Side View
(iv) Insert the major dimensions

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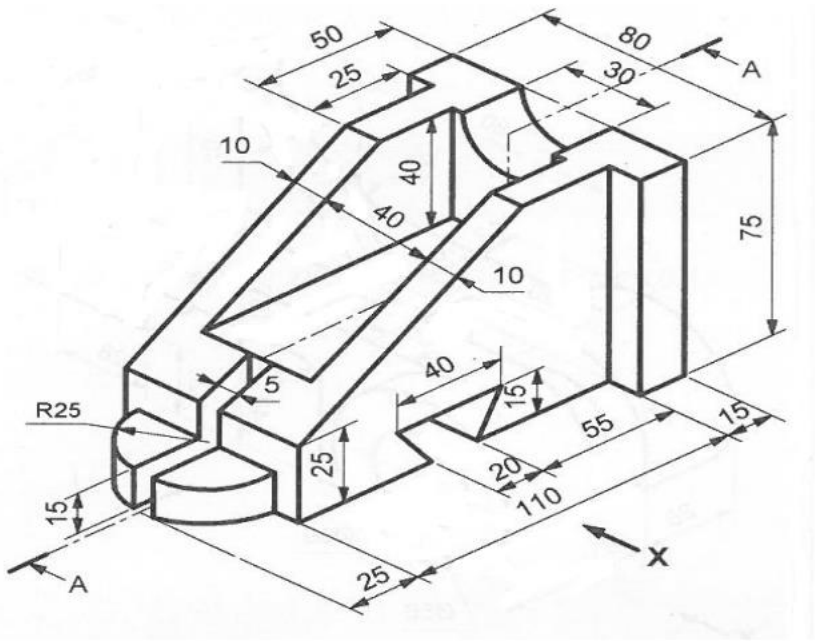


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