

COLLEGE OF ENGINEERING , PUNE

(An autonomous institute of Govt. of Maharashtra)

End Semester Exam ENGINEERING GRAPHICS I

Programme: F.Y.B.TECH

Date: 22/01/2010

Time :3 hours

Marks 50

Instructions :

- 1)All questions are compulsory.
- 2)Figures to the right indicate full marks.
- 3)Assume suitable data whenever necessary.
- 4)Retain all the construction lines and external constructions.
- 5)Dimensioning ,line work and symbols carry due credits.

Q No 1: A line AB, inclined at 30 degrees to the V.P., has its ends 50mm and 20mm above the H.P. The length of its front view is 65mm and its V.T. is 10 mm above the H.P. Determine the true length of AB, its inclination with the H.P. and its H.T.

Marks 12

Q No 2: A circular plate of negligible thickness and 50 mm diameter appears as an ellipse in the front view, having its major axis 50 mm long and minor axis 30 mm long. Draw its top view when the major axis of the ellipse is horizontal.

Marks 12

OR

Q No 2: An isosceles triangle ABC, base 60mm and altitude 40mm has its base AC in the H.P. and inclined at 30 degrees to the V.P. The corners A and B are in V.P. Draw its projections.

Q No 3: ABCD is a tetrahedron of 60mm long edges. The edge AB is in the H.P. The edge CD is inclined at an angle of 30 degrees to the H.P. and 45 degrees to the V.P. Draw the projections of the solids.

Marks 13

OR

Q. No 3: A pentagonal pyramid, base 25 mm side and axis 50mm long has one of its triangular faces in the V.P. and the edge of base contained by that face makes an angle of 30 degrees with the H.P. Draw its projections.

Q No 4: A cylinder, 50 mm diameter and 65 mm long, has its axis parallel to both the H.P. and the V.P. It is cut by the vertical section plane inclined at 30 degrees to the V.P. so that the axis is cut at a point 25mm from one of its ends and both the bases of the cylinder are partly cut. Draw its sectional front view and true shape of section.

Marks 13
