



FACULTY OF ENGINEERING AND INFORMATICS
B.E. 1 Year (New) (Common to All Branches) (Supp;I.)
Examination, January 2012
ENGINEERING GRAPHICS

Time: 3 Hours]

[Max. Marks: 100

Note Answer all questions from Part A. Answer **any five** questions from Part B.

PART – A

(35 Marks)

1. Write where the following lines are used in graphics : 2
 - a) Continuous thick line
 - b) Continuous zigzag line
 - c) Dash-Dot lines
 - d) Thin Dash lines.
2. A vehicle is travelling at a speed of 50 km per hour. On a scale representing one third of a kilometer by a cm, show the distance travelled by the vehicle in $3\frac{1}{2}$ minutes. Find the R.F. of the scale.
3. Draw a parabola passing through all the vertices of an isosceles triangles of sides 45 mm, 60 mm and 60 mm. Use tangent method. 2
4. Two points A and B are in the HP. The point A is 25 mm in front of the VP while B is behind the VP. The distance between their projectors is 70 mm and the line joining their top views makes an angle of 45° with xy, Find the distance of the point B from the VP. 3
5. A straight line is parallel to both VP and HP. Its one end is 25 mm behind VP and 15 mm above HP. Length of the line is 10 cm. Draw its projection. 4
6. A regular pentagon ABCDE, 25 cm side, has its corner A in HP and the side CD parallel to the HP. Draw its projections when its plan is parallel to and 10 mm away from VP. Also draw its traces. 4
7. Draw the projections of a cube of side 40 mm. One of the solid diagonals of the cube makes : 4
 - i) 90° to VP and
 - ii) 30° to VP.
8. A pentagonal pyramid, side of base 25 mm and height 50 mm rests on its base on HP with one of its base edges perpendicular to VP. An auxiliary inclined plane, inclined to HP at 40° cuts the pyramid, bisecting its axis. Draw its front view and true shape of the section. 4

(This paper contains 2 pages)

1

P.T.O.

