MANIPAL ACADEMY OF HIGHER EDUCATION

FIRST SEMESTER B. DES. (ID) DEGREE EXAMINATION – JAN/FEB 2018

SUBJECT: BID 103 – GRAPHICS FOR INTERIORS – 2 DIMENSION

Monday, January 22, 2018

Time: 10:00 – 13:00 Hrs.   Max. Marks: 50

✍ **Answer any FIVE complete questions.**

1A.   Draw a line of 80 mm and erect a perpendicular to it through a point on it.

1B.   Construct a regular hexagon of sides 40 mm.

                                                      (5+5 = 10 marks)

2A.   Construct an ellipse in a rectangle of 120 mm x 60 mm using rectangle method.

2B.   Construct a parabola in a parallelogram of 100 mm x 60 mm when the included angle is 60 degree.

                                                      (5+5 = 10 marks)

3A.   Draw the projection of point A if it touches both HP and VP and is 35 mm from right profile plane.

3B.   A line AB 70 mm in length is parallel to HP and perpendicular to VP. It is 40 mm above HP. The end nearer to VP is 10 mm from VP. Draw its projections.

                                                      (5+5 = 10 marks)

4A.   A hexagonal lamina of 30 mm sides is resting on HP with a corner touching it. The two edges containing that corner are equally inclined to HP. The lamina is inclined to HP at 45 degrees and the longest diagonal passing through the point on which the lamina rests appears to be inclined to VP at 60 degrees. Draw its projections.

4B.   A square lamina of sides 40 mm is resting on VP with an edge touching VP. The lamina is inclined to VP at 30 degrees and the edge on which it rests is inclined to HP at 40 degrees. Draw its projections.

                                                      (5+5 = 10 marks)

5.   A square prism of base sides 40 mm and length 60 mm is resting on HP with an edge of the base touching HP. The axis of the prism is inclined to HP at 60 degrees and appears to be inclined to VP at 30 degrees. Draw its projections.

                                                           (10 marks)

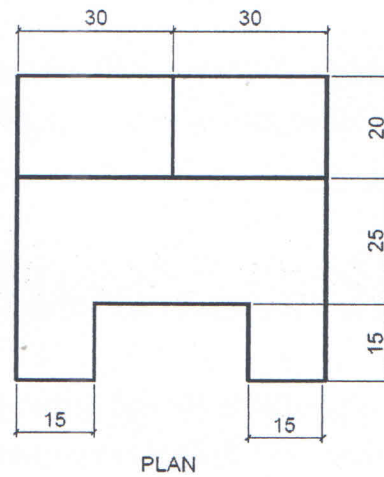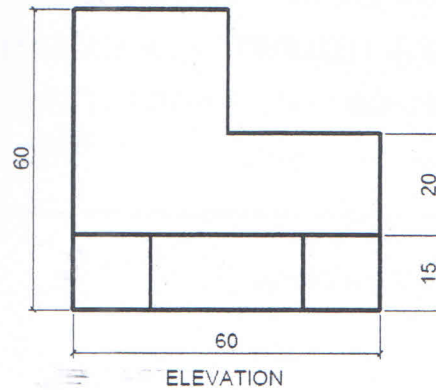6. Draw isometric projections of the object whose projections are shown in figure Q 6.

ELEVATION

PLAN

Fig Q.6

Note: All dimensions are in mm

(10 marks)