Subject Code: R10205/R10 **Set No - 1**

I B.Tech II Semester Supplementary Examinations Dec./Jan. – 2015/2016

ENGINEERING DRAWING

(Common to All Branches)

Time: 3 hours **Max. Marks: 75**

Answer any FIVE Questions
All Questions carry equal marks

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1. (a) Draw a diagonal scale of 1:4, showing cm and mm and long enough to measure upto 40 cm. Mark on it, a length of 32.7 cm.
   (b) An ellipse has the major axis and minor axis in the ratio of 3:2. Draw the ellipse, when the major axis is 120. Draw a tangent and a normal at any point P on it.

   [8+7]
2. (a) A point A is 50 mm below the H.P. and 12 mm behind the V.P A point B is 10 mm above the H.P and 25 mm in front of the V.P The distance between the projectors of A and B is 40 mm. Determine the traces of the line joining A and B
   (b) A line CD of 60 mm long has its end C in H.P and 12 mm behind V.P. The line is inclined at 45^0 to H.P and 30^0 to V.P. Draw its projections.

   [8+7]
3. The front view of a line AB measures 60 mm and makes an angle of 45^0 with XY. A is in H.P and V.T of the line is 15 mm above H.P. The line is inclined at 30^0 to V.P. Draw the projections of AB and determine its true length and inclination with H.P. Also locate its H.T.

   [15]
4. ABCD is a rhombus of diagonals AC = 110 mm and BD = 70 mm. Its corner A is in the H.P and the plane is inclined to the H.P. such that the plane appears to be a square. The plane of diagonal AC makes an angle of 20^0 to the V.P. Draw the projections of the plane and find its inclination with H.P.

   [15]
5. A cylinder of diameter 60 mm and axis 70 mm long, is having its axis inclined at 45^0 to V.P and 30^0 to H.P. Draw its projections.

   [15]
6. Draw the projections of a cone of base 60 mm diameter and axis 70 mm long, resting on a point of rim of the base on H.P, with a generator perpendicular to H.P. The plane containing the axis and the generator is parallel to V.P. Draw the projections of the cone.

   [15]

7. Draw the isometric view of the following figure.1

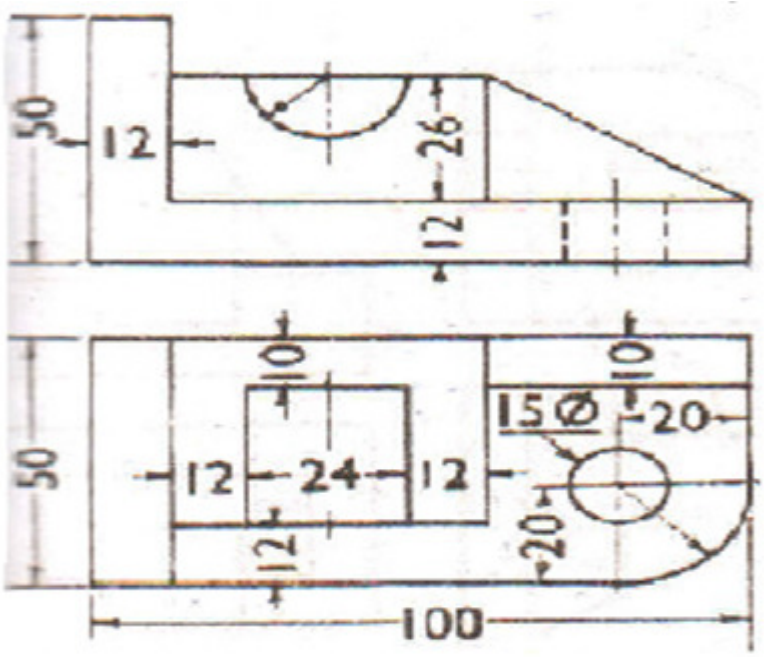

Fig.1 (Note: All dimensions are in mm)

[15]

8. Draw Fig.2 (a) Front view (b) Side view from the right (c) Top view

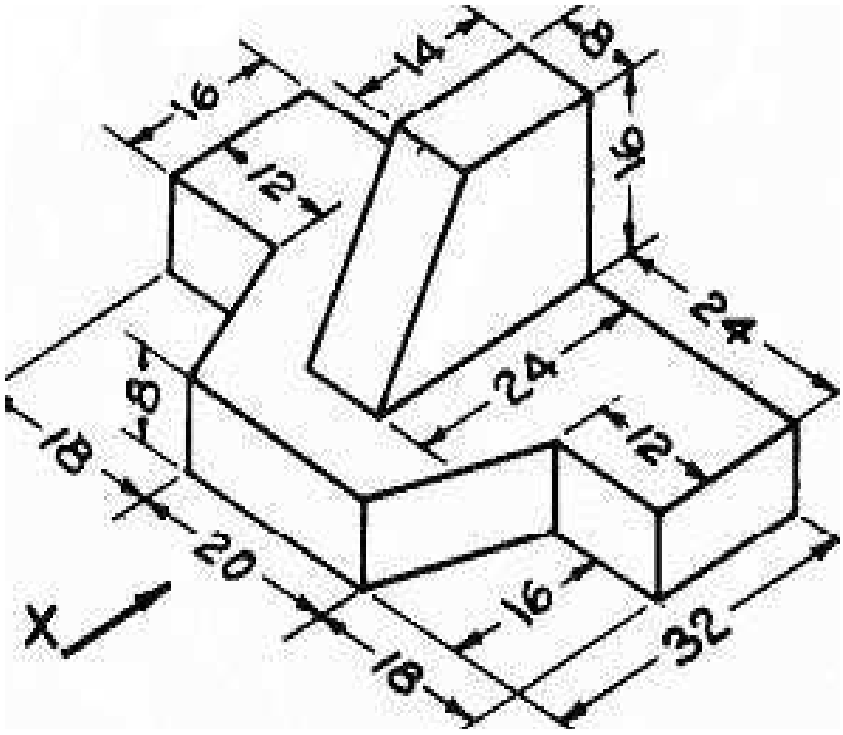

Fig.2 (Note: All dimensions are in mm)

[15]