Code: EC2T6

I B.Tech - II Semester – Regular/Supplementary Examinations April – 2018

ENGINEERING DRAWING
(ELECTRONICS & COMMUNICATION ENGINEERING)

Duration: 3 hours   Max. Marks: 70

Answer any **FIVE** questions.   All questions carry equal marks
$$5 \times 14 = 70 \text{ M}$$

1. Draw a scale 1 cm = 1m to read decimeters, the scale is drawn to measure maximum distance of 6 m. Show on it a distance of 4 m and 6 dm.   14 M

2. Draw the locus of a point on the periphery of a circle which rolls on a curved path. Take diameter of rolling circle as 50 mm and radius of directing circle as 75 mm. Name the curve.
                                                              14 M

3. The front view of a line PQ is 85 mm long and it makes an angle of 60^0 to the HP. The end P of the line is 35 mm below H.P and 15 mm in front of the V.P. The end Q is in V.P and above H.P. Draw the projections of the line and measure plan length. Determine the true length and inclinations of the PQ.
                                                              14 M

4. A regular pentagon lamina of 30 mm side, surface is inclined at 30^0 to VP and side on which it rests on V.P makes an angle of 45^0 to H.P. Draw its projections.　　　　　14 M

5. A cylinder 40 mm diameter and 50 mm axis is resting on one point of a base circle on VP while its axis makes 45^0 with VP and FV of the axis 35^0 with HP. Draw its projections.

　　　　　　　　　　　　　　　　14 M

6. A cone 40mm diameter and 50 mm axis is resting on one generator on HP (lying on HP) which is parallel to VP. It is cut by a horizontal section plane through its base center. Draw its projections and sectional top view.　　　14 M

7. Front view and top view of an object are given below in Figure-1. Draw its isometric view.　　　　　14 M
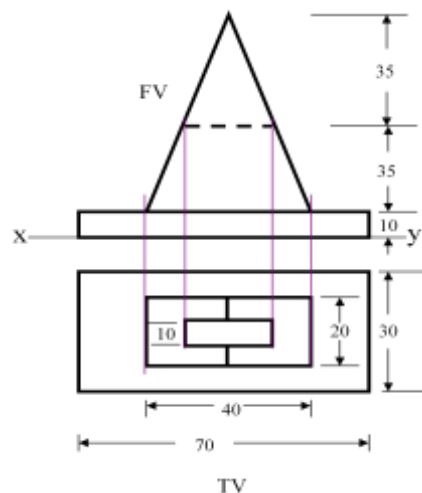

FV

35

35

10

X ——————— y

10   20   30

40

70

TV

Figure-1

8. For the following isometric view shown in Figure-2.
   Draw the
   a) Front view
   b) Right side view and
   c) Top view.
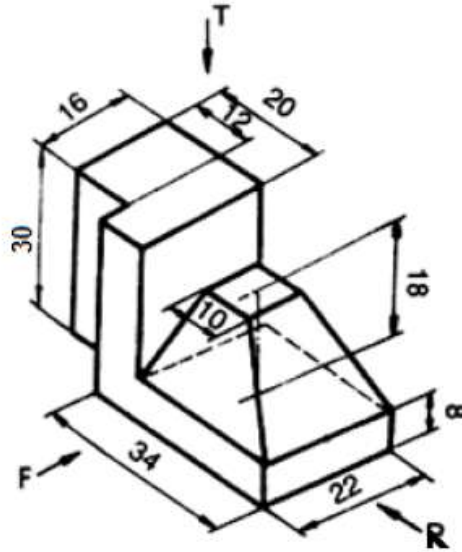   All dimensions are in mm.   14 M

Figure: 2