

**DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/MANAGEMENT/
COMMERCIAL PRACTICE, NOVEMBER - 2023**

ENGINEERING GRAPHICS

[Maximum marks: 75]

[Time: 3 Hours]

- [Note:- 1. A2 size drawing sheet to be supplied
2. Missing data if any, suitably assumed
3. Sketches are accompanied
4. All dimensions as per BIS.
5. All drawing should be in first angle projections]

PART A

(Maximum Marks: 5)

I. Answer all the following questions in one word or sentence or sketch. Each question carries 1 mark.

(5 x 1 = 5 Marks)

		Module outcome	Cognitive level
1	Which type of lines are used to mark centre lines and trajectories?	M1.02	U
2	The eccentricity value of ellipse is	M1.04	U
3	Define reference line.	M2.01	R
4	What is an oblique projection?	M3.01	U
5	List any two CAD packages.	M4.04	U

PART B

(Maximum Marks: 40)

II. Answer any five of the following questions. Each question carries 8 marks.

(5 x 8 = 40 Marks)

		Module outcome	Cognitive level
1	Draw a regular hexagon having 50 mm side.	M1.04	U
2	Construct a regular heptagon of 40 mm side length.	M1.04	U
3	Draw an ellipse, given the major axis as 180 mm and minor axis 110 mm, using rectangular method.	M1.04	U
4	The vertex of a parabola is 30 mm from the directrix. Draw the parabola using eccentricity method.	M1.04	U

5	Draw the projections of the following points on a common reference line: Q in H.P and 35 mm behind V.P, R in both H.P and V.P, S in V.P and 30 mm above H.P.	M2.02	U
6	A line BC 70 mm long is parallel to V.P and 35° inclined to H.P. The line is 50 mm in front of V.P and the end B is 30 mm above H.P. Draw its projections.	M2.03	A
7	The length of elevation of a line AB which is parallel to H.P and inclined 30° to V.P is 60 mm. The end A of the line is 20 mm in front of V.P and 25 mm above H.P. Draw the projections of the line and find its true length.	M2.03	A

PART C

(Maximum Marks: 30)

Answer any two of the following questions. Each question carries 15 marks

(2 x 15 = 30 Marks)

		Module outcome	Cognitive level
III	The isometric view of an object is shown in figure 1, draw front view and top view.	M3.01	U

Figure 1

IV Draw half sectional front view and top view for the figure 2.

M3.02

A

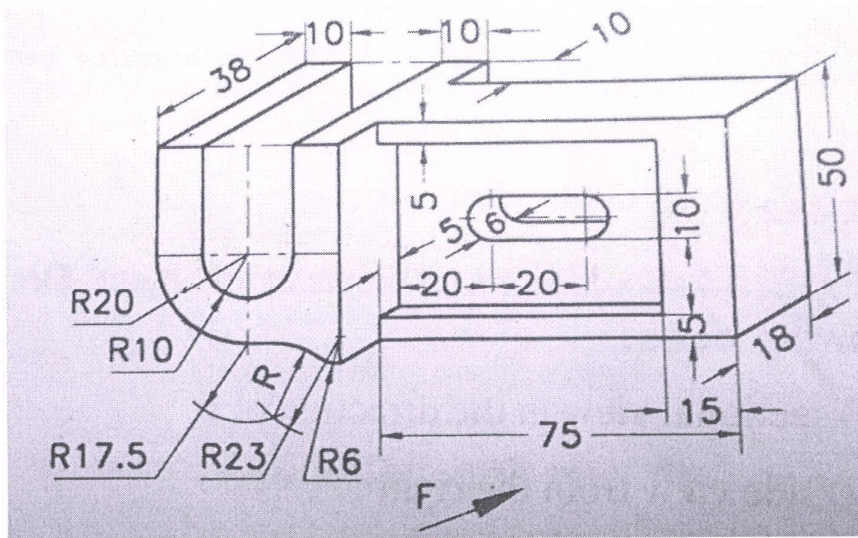


Figure 2

V Draw the isometric view of a model, whose two views are shown in figure 3.

M4.03

A

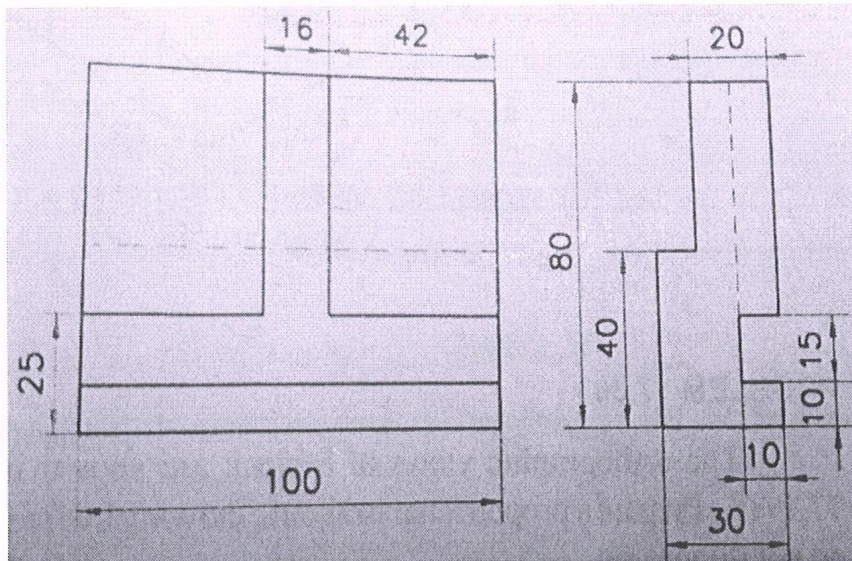


Figure 3