

**DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/MANAGEMENT/
COMMERCIAL PRACTICE, NOVEMBER - 2024**

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	Show an example for parallel dimensioning.	M1.03	U
2	Draw the symbol of first angle projection.	M2.01	R
3	What do you mean by section plane?	M3.02	U
4	What do you mean by Isometric projection?	M4.01	U
5	List different modifying commands used in AutoCad.	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 pentagon of side 40mm.	M1.04	U
2	Draw an ellipse by concentric circle method, given the major axis is 100mm and minor axis is 50mm.	M1.04	U
3	Draw a Parabola of base 80mm and axis 60mm using tangent method.	M1.04	U
4	Draw an involute of a triangle ABC whose sides are AB = 40mm, BC = 30mm, CA = 50mm.	M1.04	U

5	Draw the projections of the following points on a common reference line. (i) Point A is 30mm above H.P. and 20mm in front of V.P. (ii) Point B is 30mm below H.P. and 20mm behind V.P. (iii) Point C is 35mm above H.P. and 15mm behind V.P. (iv) Point D is 15mm below H.P. and 35mm in front of V.P.	M2.02	U
6	The top view of a line parallel to V.P. and inclined at 45 degree to H.P. is 60mm. One end of the line is 12mm above H.P. and 25mm in front of V.P. Draw the projections and determine true length.	M2.03	A
7	A line CD which is perpendicular to H.P. is lying 30mm in front of V.P. One of its point C is 20mm above H.P. while the other point D is 100mm above H.P. Draw its projections and also mark the true length.	M2.03	A

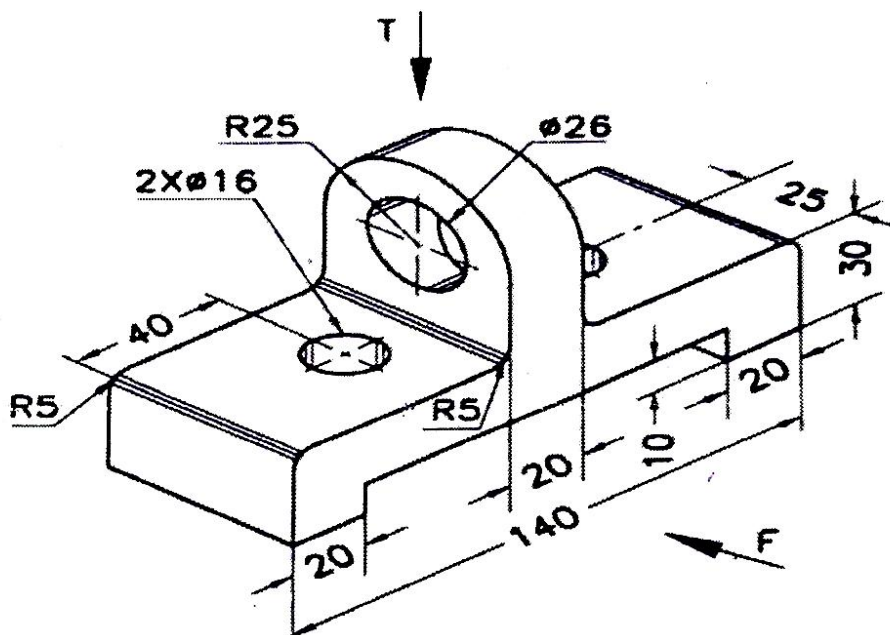
PART C

(Maximum Marks: 30)

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

(2 x 15 = 30 Marks)

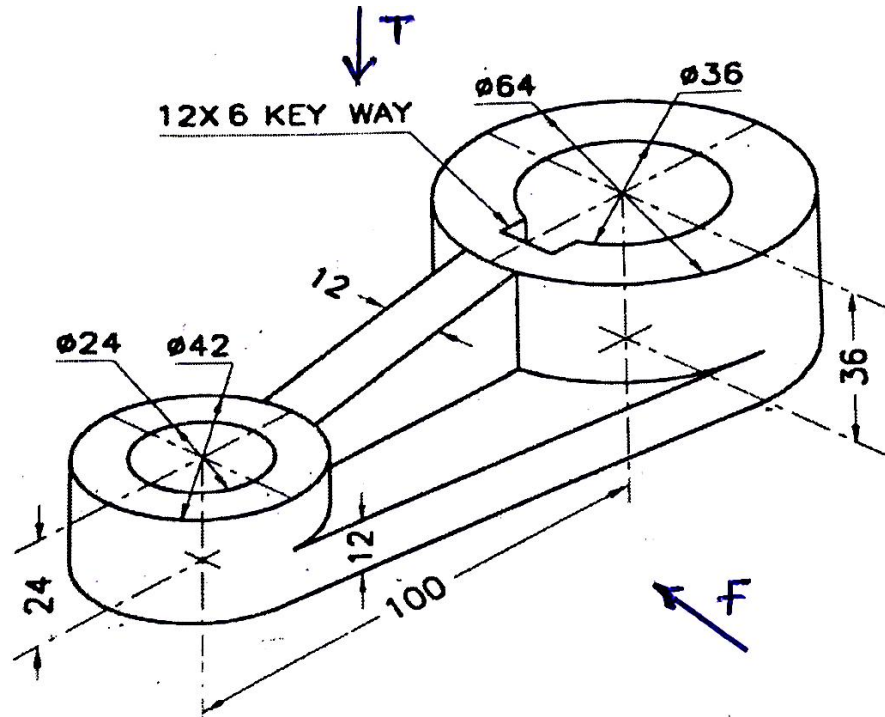
		Module outcome	Cognitive level
III	Draw the front, top and left side view of the shaft support shown in figure.	M3.01	U



IV Figure shows an Isometric projection of a lever. Draw full sectional front view from the direction F and top view without section.

M3.02

U



V Orthographic views of an I-block is shown in figure. Draw the isometric view.

M4.02

A

