

TED (21) 1005A  
(Revision-2021)

2110220187

Reg.No.....  
Signature.....

**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 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	Sketch the representation of third angle projection	M1.02	U
2	Explain first angle projection	M2.01	R
3	Explain the need of sectional views	M3.02	U
4	What do you mean by Isometric projection?	M4.01	U
5	List different drawing 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 hexagon of side 40mm	M1.04	U
2	Draw an ellipse by concentric circle method, given the major axis is 100 mm and minor axis is 60mm	M1.04	U
3	Draw a Parabola of base 90mm and axis 40 mm using tangent method.	M1.04	U
4	Draw the involute of a square of side 40 mm	M1.04	U
5	Draw the projections of the following points on a common reference line. (a)Point P is 35 mm behind the VP and 20 mm below the HP (b)Point Q is 40 mm in front of the VP and 30 mm above the HP (c)Point R is 50 mm behind the VP and 15 mm above the HP (d)Point S is 40 mm below the HP and in the VP	M2.02	U

6	One end of a line P of line PQ, 55 mm long is 35 mm in front of the VP and 25 mm above the HP. The line is inclined at $40^{\circ}$ to the HP and $30^{\circ}$ to the VP. Draw the projections of the line PQ	M2.03	A
7	A straight line AB has its end A, 15 mm above HP and 20 mm in front of VP. The end B is 40 mm above HP and 45 mm in front of VP. Draw its projections when the distance between the end projectors is 50 mm. Also find the true length of the line and its true inclinations with the HP and VP	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)

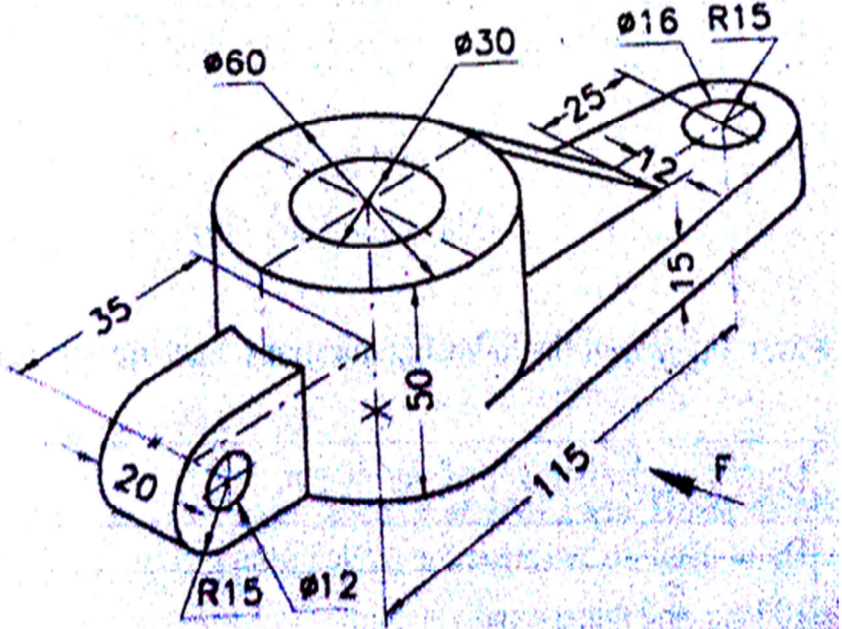
		Module outcome	Cognitive level
III	<p>Draw the front and right side view of the object shown in figure</p>	M3.01	U

IV

Figure shows pictorial view of an object. Draw the following views  
(a) Full Sectional view in the direction of F  
(b) Top view

M3.02

U



V

Orthographic views of an object are shown in figure. Draw the isometric view of the object.

M4.02

A

