

**DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/MANAGEMENT/
COMMERCIAL PRACTICE – NOVEMBER - 2022**

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

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

(5x1= 5marks)

		Module Outcome	Cognitive level
1	List different types of scales used in engineering drawings.	M 1.05	U
2	Identify the quadrant when a point is below HP and behind VP.	M 2.02	U
3	What do you mean by reference line?	M 2.01	U
4	List different types of conic sections.	M1.04	U
5	List the different coordinate systems in Autocad.	M4.04	U

PART - B

II. Answer any Five questions from the following. Each question carries 8 marks.

(5x8=40marks)

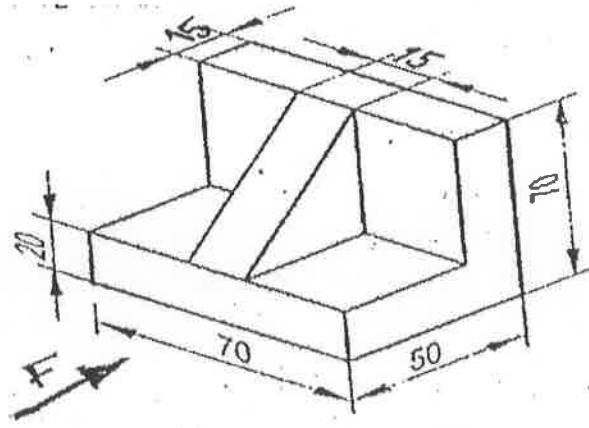
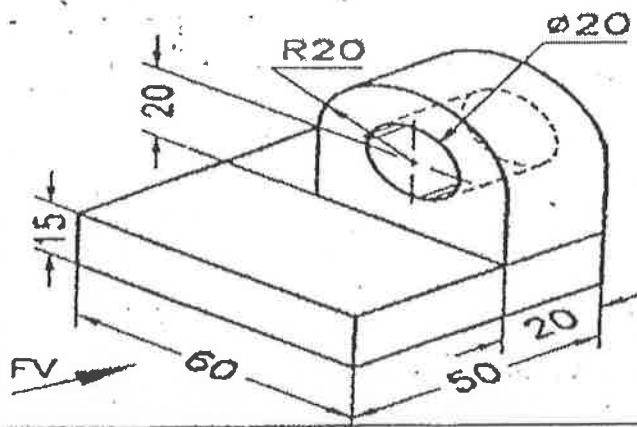
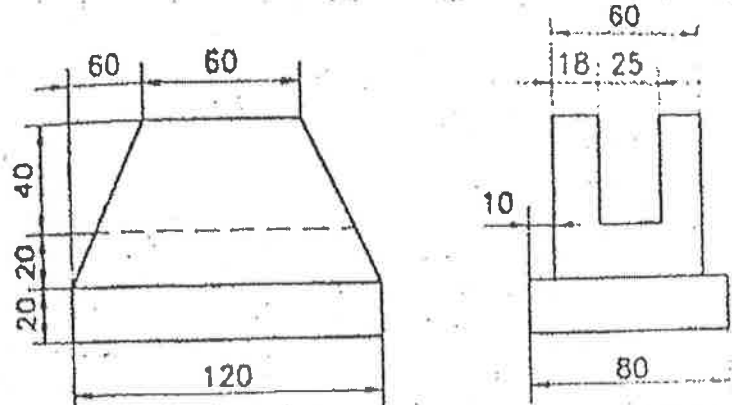
		Module Outcome	Cognitive level
1	Construct a regular heptagon of side 50 mm.	M 1.04	U
2	Draw an ellipse by rectangular method, major and minor axes given as 100 mm and 60 mm respectively.	M 1.04	U
3	Draw a parabola given the distance of the focus from the directrix as 60 mm.	M1.04	U
4	Draw the involute of a rectangle having length 30 mm and breadth 20 mm.	M1.04	U
5	Draw the projections of the following points on a common reference line. (i) Point A is 20 mm above HP and 25 mm in front of VP. (ii) Point B is 20 mm above HP and is in the VP. (iii) Point C is 25 mm in front of VP and is in the HP. (iv) Point D is 20 mm below HP and 15 mm behind VP.	M2.02	U
6	A line MN, 70 mm long lies in the VP and has the end M in both HP and the VP. It is inclined at 35° to the HP. Draw the projections of the line.	M2.03	A
7	A line PQ, 60 mm long has one end P, 20 mm above the HP and 35 mm in front of the VP. The line is parallel to HP. The front view has a length of 50 mm. Find its true inclinations with the VP.	M2.03	A

PART - C

III. Answer **any two** questions from the following. Each question carries 15 marks.

(2x15=30Marks)

Module Outcome Cognitive level

1	<p>Draw the front and right side views of the object shown in figure</p> 	M3.01	U
2	<p>Draw the front view and left side view of the object shown in figure.</p> 	M3.01	U
3	<p>Orthographic views of an object are shown in figure. Draw the isometric view of the object</p> 	M4.02	A
