TED (21) – 1005A
(REVISION-2021)

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Reg.No……
Signature…….

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 drawings should be in first angle projection.

PART - A

I. Answer all the following questions in one word or one sentence. Each question carries 'one' marks.

(5 x 1 = 5 Marks)

		Module Outcome	Cognitive level
1	What is Plain scale?	M1.05	U
2	The eccentricity of a parabola is	M1.04	U
3	Draw the symbol of first angle projection.	M2.01	U
4	What is an orthographic projection?	M3.01	U
5	Different method to draw a circle in AutoCAD.	M4.04	A

PART - B

II. Answer *any five* questions from the following. Each question carries 'Eight' marks. **(8 x 5 = 40 Marks)**

		Module Outcome	Cognitive level
1	Redraw the figure1 and dimension it as per BIS .	M1.03	U
2	Construct a regular heptagon having length of side 25 mm.	M1.04	U
3	Draw an ellipse having a Major Axis of 100mm and Minor Axis of 60mm using concentric circle method.	M1.04	U
4	Draw a parabola of base 90 mm and axis 60 mm using tangent method.	M1.04	U
5	Draw the involute of a circle having diameter 30 mm.	M1.02	U
6	Draw the projections of the following points on a common reference line. Take the distance between the projectors are 30 mm. a) Point P is 30 mm above HP and 40 mm in front of VP. b) Point Q is 25 mm above HP and 35 mm behind VP. c) Point R is 32 mm below HP and 38 mm behind VP. d) Point S is 36 mm below HP and 15 mm in front of VP.	M2.02	U
7	Draw the projections of line AB, 50 mm long, parallel to HP and inclined at 45^0 with VP. Point A is 40 mm above HP and 50 mm in front of VP.	M2.03	A

PART - C

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

(2 x 15= 30 Marks)

		Module Outcome	Cognitive level
1.	The isometric view of an object is shown in figure 2, draw front view and top view.	M3.01	U
2	Draw the top view and sectional front view of the object shown in figure 3.	M3.02	A
3.	Draw the isometric view of a model, whose views are shown in figure 4.	M4.01	A

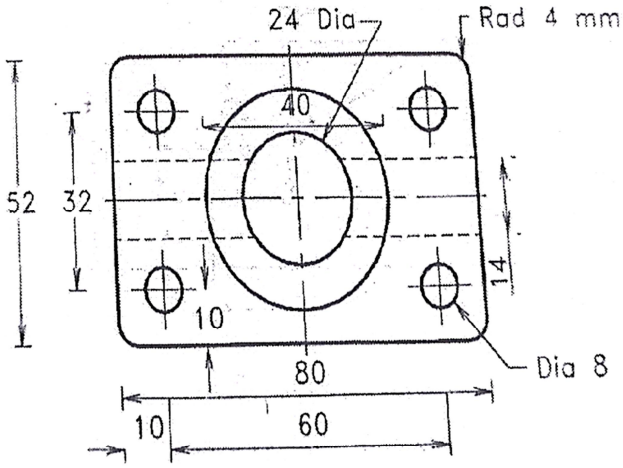

Figure. 1

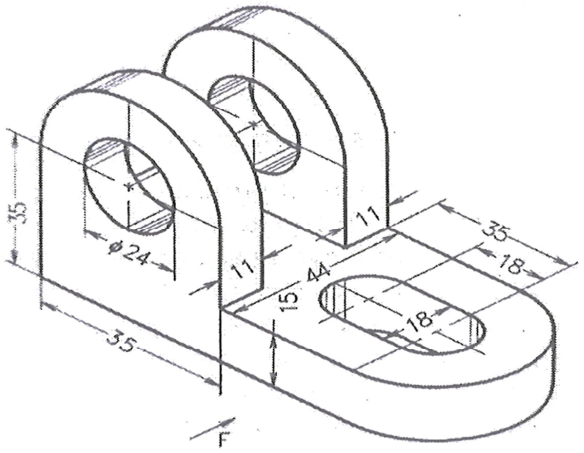

Figure. 2

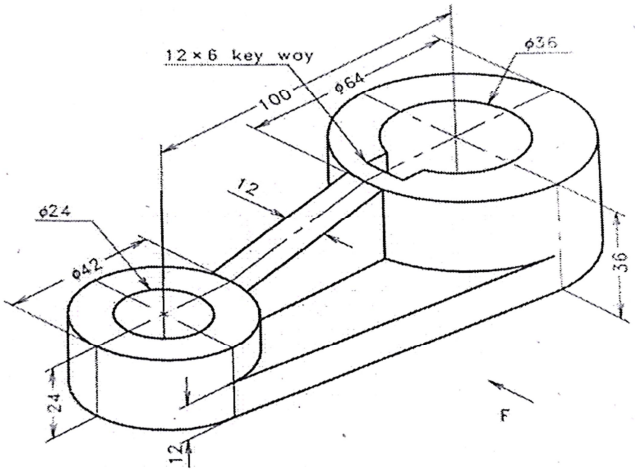

Figure. 3

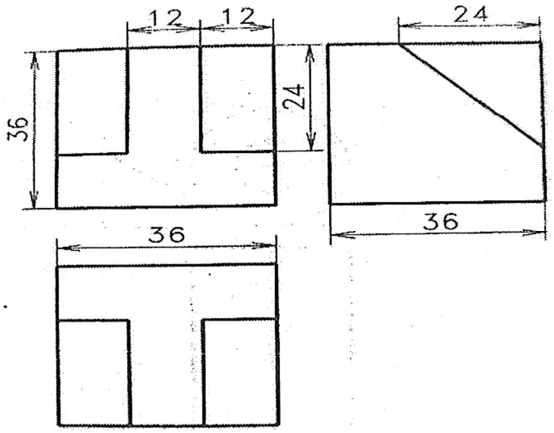

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Figure. 4

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