TED(21) 1005 A & TED(21) 1005 B

TED (21) 1005 (Revision – 2021)

N22-2110220186 A

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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 dimensions as per BIS
- 5. All drawings should be in first angle projections.]

PART-A

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

 $(5 \times 1 = 5 \text{ Marks})$

		Module Outcome	Cognitive level
1.	Write any two applications of continuous thick lines.	M1.02	U
2.	In the case of parabola, the eccentricity is	M1.04	U
3.	Define a projector.	M2.01	U
4.	What is an isometric projection?	M3.01	U
5.	Define CADD.	M4.04	R

PART-B

II. Answer any five questions from the following. Each question carries 'eight' marks.

(5 x 8 = 40 Marks)

Module Outcome Cognitive level

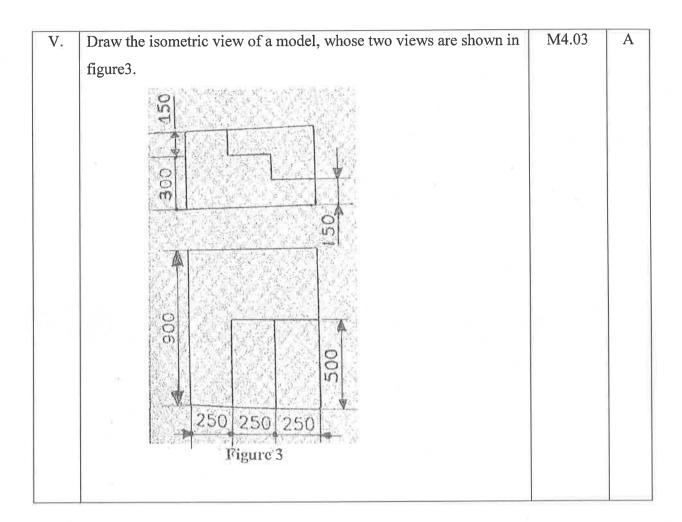
1.	Draw a regular pentagon having 50mm side.	M1.04	U
2.	Construct a regular octagon of 30mm side length.	M1.04	U
3.	Draw an ellipse by eccentricity method. Given eccentricity as $\frac{4}{7}$	M1.04	U
	and one focus is at a distance of 40mm from the directrix.		
4.	Draw a parabola by rectangular method, given the sides of rectangle as	M1.04	U
	120mm and 50mm.		
5.	Draw the projections of the following points on a common reference	M2.02	U
	line:		
	A is 30mm above H.P and 20mm is front of V.P		
	B is 30mm below H.P and 30mm behind V.P		
	C is 35mm above H.P and 15mm behind V.P		
6.	Draw the projections of a line PQ, 70mm long, inclined 60° to H.P,	M2.03	A
	parallel to V.P and 20mm in front of V.P		

7.	The top view of a line parallel to V.P and inclined 40 ⁰ to H.P is 60mm.	M2.03	A
	One end of line is 15mm above H.P and 30mm infront of V.P. Draw	. 25	
	the projections of the line and determine the true length.		

PART-C
Answer any two questions from the following. Each question carries 'fifteen' marks

(2 x 15 = 30 Marks)

		Module Outcome	Counitive leve
III.	The isometric view of an object is shown in figure 1, draw front	M3.01	U
	view and top view.		
	т]		
	Ø40 HOLE,24 DEEP ₩ Ø64		
			4
	10 1 2		
	15 140 F		
	50/5		
	90		
	Figure 1		
	rigure 1		
	OD		
IV.	OR	M1.02	U
-	Draw sectional front view and top view of an object shown in figure 2.		
	12X 6 KEY WAY \$64 \$36		
	/2		
	Ø24 Ø42 Ø2		
	7,00		
	1		
	Figure 2		
			1



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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.

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

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

		(5x8=40)	marks)
		Module	Cognitive
		Outcome	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	M 1.04	U
	as 100 mm and 60 mm respectively.	-	
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	M1.04	U
	20 mm.		
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.	M2.02	U
	(ii) Point B is 20 mm above HP and is in the VP.	1012.02	
	(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.		
6	A line MN,70 mm long lies in the VP and has the end M in both	M2.03	A
	HP and the VP. It is inclined at 35° to the HP. Draw the		
	projections of the line.	1	
7	A line PQ, 60 mm long has one end P, 20 mm above the HP and	M2.03	A
	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.		

PART - C

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

(2x15=30Marks)

Module Cognitive Outcome level

1	Draw the front and right side views of the object shown in figure	M3.01	U
÷	Down the Grant signs and left side views of the chiest shows		
2	Draw the front view and left side view of the object shown in figure. R20 820 820 830 830	M3.01	U
3	Orhographic views of an object are shown in figure.Draw the isometric view of the object 60 18:25 10 80	M4.02	A