R.N.G.PATEL INSTITUTE OF TECHNOLOGY-RNGPIT

(An Autonomous College U/s UGC Act 1956)

B. VOC SEMESTER- I, SEMESTER END EXAMINATION - SUMMER 2025

Subject Code: 1PT103	Date: 06-06-2025
Subject Names ENCINEEDING DDAWING	

Subject Name: ENGINEERING DRAWING

Time: 11:00 AM to 01:00 PM Total Marks: 50

Instructions

- 1. It is **compulsory** for students to write **Enrolment No. /Seat No.** on the question paper.
- 2. Attempt all questions in the question paper.
- 3. The figures to the right of each question indicate full marks. Make suitable assumptions with proper justification wherever required.
- 4. Simple, non-programmable scientific calculators are permitted.
- 5. BL Bloom's Taxonomy Levels (R-Remember, U-Understanding, A-Application, N-Analyze, E-Evaluate, C-Create), CO Course Outcomes.

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			Marks	BL	co
Q.1	Multiple-Choice Questions		[05]		
	(a) What is the representative factor of a drawing sheet, representing an actual		1	1	1
	(i) 1:50	(ii) 1:25			
	(iii) 1:24	(iv) 1:60			
	(b) A plane is parallel to a base of regula The cross-section is	ar cone and cuts at the middle.	1	1	2
	(i) Ellipse	(ii) Hyperbola			
	(iii) Circle	(iv) Parabola			
	(c) A plane is held parallel to horizontal drawing on that plane?	plane in which view we can watch	1	1	3
	(i) Top view	(ii) Front view			
	(iii) Back view	(iv) Side view			
	(d) The angle between the isometric axe	s is degrees.	1	2	4
	(i) 15	(ii)120			
	(iii) 45	(iv) 30			
	(e) Which of the following is permanent	fastener?	1	1	5
	(i) Screw	(ii) Bolt			
	(iii) Rivet	(iv) Nut			

Q.2 Attempt Any Three

[15]

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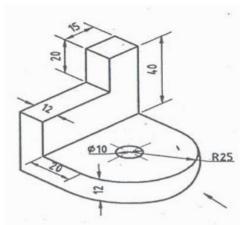
(a) Draw Hexagon by using the universal circle method.

- 2 1

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- (b) Differentiate first and third angle projection method with suitable example.
- 2
- (c) Draw the front view, side view and top view for figure by using first angle projection method.
- 5 3



(d) Draw the front view, side view and top view for figure by using first angle projection method.

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Q.3 Attempt Any Three

[15]

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(a) Write different types of lines with its application.

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- 1 1
- **(b)** Construct a scale of 1:4, to show centimeters and long enough to measure up to 5 decimeters.

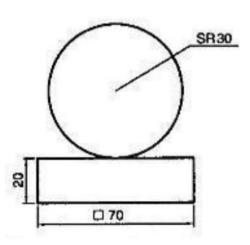
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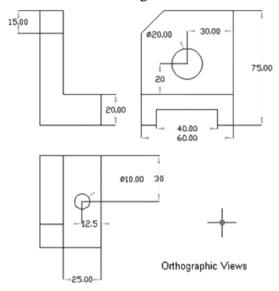
(c) A Sphere with a 60 mm diameter is resting centrally on the Top of the Square Block with a 70 mm side 20 mm thickness. Draw an isometric view of the arrangement?

5 3 4





(d) Draw the Isometric view of shown figure.



Q.4 Attempt Any Three

(a) Draw circle with diameter 50 mm and divide it in 16 equal parts.
(b) Draw Octagon with side of 30 mm.
(c) Draw types of Nuts.
(d) Draw types of Nuts.
(e) Draw types of Nuts.

(d) Draw types of welding symbols.

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