Enrolment No./Seat No_____

GUJARAT TECHNOLOGICAL UNIVERSITY
BI- SEMESTER–I EXAMINATION – WINTER 2025

Subject Code:2X15106   **Date:01-12-2025**
Subject Name: Technical Representation of Drawing (TRD)-I
Time:10:30 AM to 01:30 PM   **Total Marks:40**
Instructions:
1. **Attempt all questions.**
2. **Make suitable assumptions wherever necessary.**
3. **Figures to the right indicate full marks.**
4. **Simple and non-programmable scientific calculators are allowed.**

			Marks
Q.1	**(a)**	Explain any one term through any basic 3D Form. 1. Isometric Drawing 2. Axonometric Drawings	**04**
	(b)	Explain below terminologies through sketch.(Any Eight) 1. Ground plane 2. Station point 3. Picture plane 4. Horizontal plane 5. Ground line 6. Centre of vision 7. Auxiliary ground plane 8. Horizon line 9. Perpendicular axis. 10. Central plane	**16**
Q.2	**(a)**	Draft below shapes according to dimension. 1. A pentagon, length of 70 mm. 2. A heptagon, length of 60 mm.	**06**
	(b)	A pentagonal pyramid, base 30mm long and axis 70 mm long, has one of its slant edges in the H.P. and inclined at 30 to the V.P. Draw the projections of the solid when the apex is towards the observer	**10**

OR

	(b)	Draw projections of a cone, base 50 mm diameter and axis 70 mm long, lying on a generator on the ground with the top view of the axis making an angle of 45 with V.P.	**10**
Q.3	**(a)**	Explain 'Principle of Projection' and four methods of projection.	**04**

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