

Enroll No

Q.P. Code
UT 3503

**Unit Test -I (2025-26)**

F. Y. B.Tech.- (Div.: - H, I, J, K )

**Course Code: SH1136**

**Course Name: Engineering Graphics**

Day & Date: Friday 17/10/2025

Time: 10:30 To 12:45

Max Marks- 25

**Instructions:**

- 1) All questions are compulsory.
- 2) Figures in rounded ( ) brackets within the question, indicate the scheme of marking for respective part of the question, whereas, figures in the first right column indicate total marks for that whole question.
- 3) CO is the index number of the Course Outcome statement.
- 4) The Bloom's taxonomy level (BL) for 1,2,3,4,5 and 6 is remember, understand, apply, analyze, evaluate and create respectively.
- 5) Assume suitable data if necessary.
- 6) Use of non-programmable calculators is allowed

**Q.1 Solve any TWO**

		Marks	BT Level	COs
A	A FV of line AB measures 75 mm and it is inclined to HP by $45^\circ$ . A TV of line is inclined at an angle of $35^\circ$ . Complete its projections if point A is 10 mm above HP and 20 mm in front of VP.	7	3	1
B	A line CD 100 mm long is inclined to HP by $30^\circ$ and VP by $20^\circ$ . Point C is 15 mm above HP and 10 mm in front of VP. Find apparent lengths and its inclinations.	7	3	1
C	A 95 mm line EF measures 65 mm in TV and 80 mm in FV. Complete its projections if point E is 20 mm in front of VP and 15 mm above HP.	7	3	1

- Q.2 A** A rectangle plane of dimension 40 mm X 60 mm is resting on HP on one of its small side which is inclined at an angle of  $35^\circ$  with VP. Complete its FV if its TV is perfect square of 40 mm side.

