



K. K. Wagh Institute of Engineering Education & Research, Nashik
(An Autonomous Institute From A.Y. 2022-23)

InSem Examination-I Winter2025	
Exam Seat No.:	
Academic Year:2025-2026	Semester:I
Class:FY	Program:B.Tech
Branch Code: FYE	Pattern: 2023
Name of Course:Engineering Drawing	Course Code: 2300110A
Max. Marks:30	Duration: 1.15 Hrs.

Instructions: Candidates should read carefully the instructions printed on the Question Paper and on the cover page of the Answer Book, which is provided for their use.

1. This question paper contains 01 page(s).
2. Answer to each new question is to be started on a new page.
3. Assume suitable data wherever required, but justify it.
4. Draw the neat labelled diagrams, wherever necessary.
5. The last columns indicates the Course Outcome of the Question/sub-question.

Marks CO

Question No. 1

- A) A line AB measuring 70 mm has its end A 15 mm in front of the Vertical Plane (VP) and 20 mm above the Horizontal Plane (HP). The other end B is 60 mm in front of the VP and 50 mm above the HP. Draw the projections of the line and find the inclinations of the line with both the reference planes of projection. (15) CO4

OR

- B) The elevation of a straight line CD is 60 mm long and is inclined at 60° to the XY line. The end point C is 15 mm above the H.P. and 20 mm in front of the V.P. Draw the projections of the line if it is inclined at 30° to the H.P. Find the true length (T.L.) and the inclination with the V.P. (Φ). (15) CO4

Question No. 2

- A) An isosceles triangle ABC having its base AB = 45 mm and altitude 65 mm is resting on the H.P. on its base AB. Draw the projections of the plane when its surface is inclined to H.P. at an angle of 40° and the base AB which is on H.P. is making an angle of 45° to V.P. (15) CO4

OR

- B) A pentagonal plate of side 40 mm is resting in H.P. on its side. Then its surface makes 40° with H.P. Draw the projections if it's resting side is inclined to V.P. at an angle of 45° (15) CO4

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