K. K. Wagh Institute of Engineering Education & Research, Nashik

(An Autonomous Institute From A.Y. 2022-23)

WINTER-2024	
Exam Seat No.:	
Academic Year:2024-2025	Semester:I/II
Class:FY	Program:B.Tech
Branch Code:FYE	Pattern:2023
Name of Course:Engineering Drawing	Course Code:2300110A
Max. Marks:60	Duration:2.30 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 03 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 and level of Blooms Taxonomy of the Question/sub-question.

Marks CO

Question No. 1

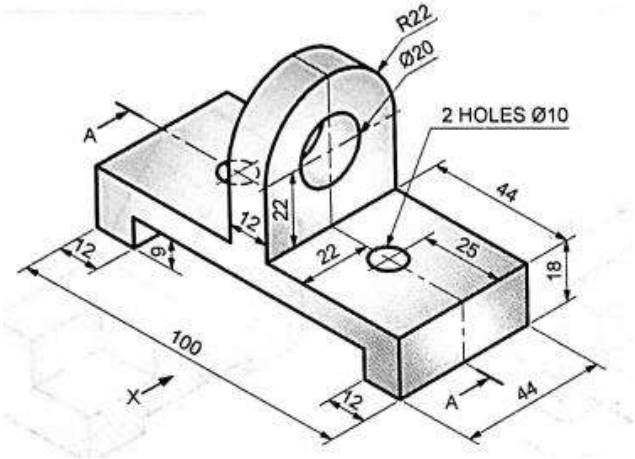
1.a) A line AB 65 mm long, has its end A 20 mm above HP and 25 mm infront of VP. The end B is 40 mm above HP and 65 mm infront of VP. Draw the projections of AB and show its inclination with HP and VP (12) CO4

OR

1.b) A triangular lamina of 25mm sides rests on HP with one of its corners touching it, such that the side opposite to the corner on which it rests is 15 mm above HP and makes an angle of 30° with VP. Draw its projections. Also determine the inclination of the lamina with the reference plane. (12) CO4

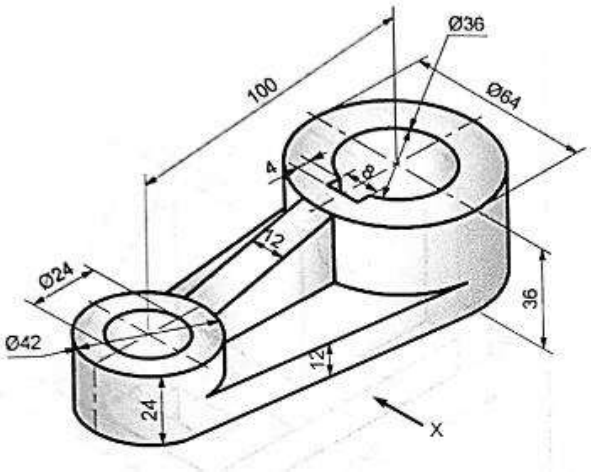
Question No. 2

2.a) Figure shows Pictorial view of an object. Draw its Sectional Front View looking through A A, Top View and Right hand Side view (1st Angle method) (16) CO3



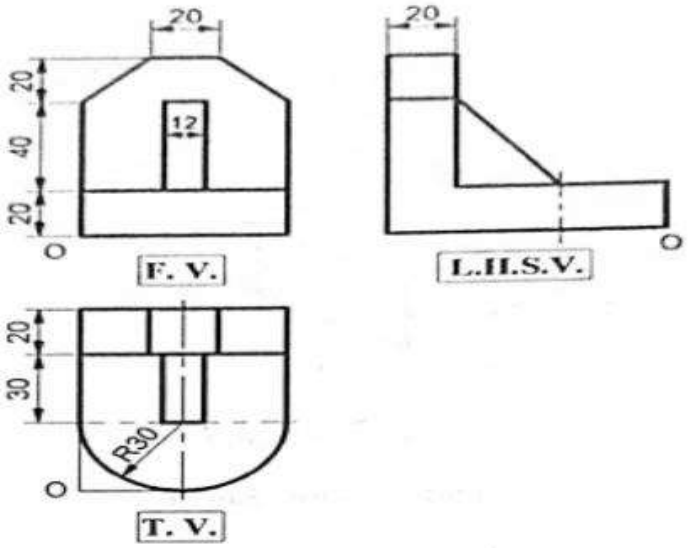
OR

2.b) Figure shows Pictorial view of an object. Draw its Sectional Front View considering section plane (16) CO3



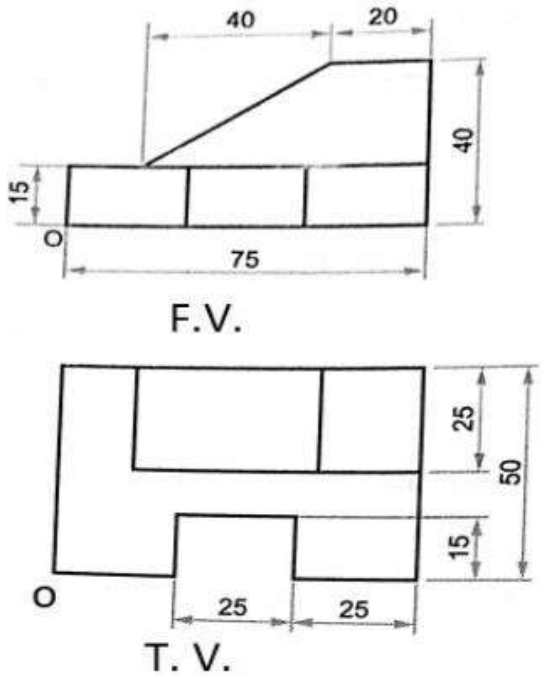
Question No. 3

3.a) Figure shows Front view, Top view and Side View of an object by first angle projections method. Draw its isometric view about origin 'O'. Give overall dimensions (16) CO3



OR

3.b) Figure shows Front view, Top view of an object by first angle projections method. Draw its isometric view about origin 'O'. Give overall dimensions (16) CO3



Question No. 4

4.a) A cylinder of diameter 40 mm and height 50 mm is resting vertically on one of its ends on the HP. It is cut by a plane perpendicular to the VP and inclined at 30° to the HP. The plane meets the axis at a point 30 mm from the base. Draw the development of the lateral surface of the lower portion of the truncated cylinder. (16) CO4

OR

4.b) A hexagonal prism, edge of base 20 mm and axis 50 mm long, rests with its base on HP such that one of its rectangular faces is parallel to VP. It is cut by a plane perpendicular to VP, inclined at 45° to HP and passing through the right corner of the top face of the prism. (i) Draw the sectional top view. (ii)Develop the lateral surfaces of the truncated prism. (16) CO4

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