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

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

SUMMER-2024	
Exam Seat No.:	
Academic Year:2023-2024	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.

Question No. 1 Attempt following Question

1.a) A line AB has its end point A on the H.P. and 25 mm infront of V.P. The plan length is 40 mm and Elevation length is 50 mm. The plan of the line is making an angle of 30^0 to the XY line. Draw the projections of the line. Find the TL and θ. (12) CO4

OR

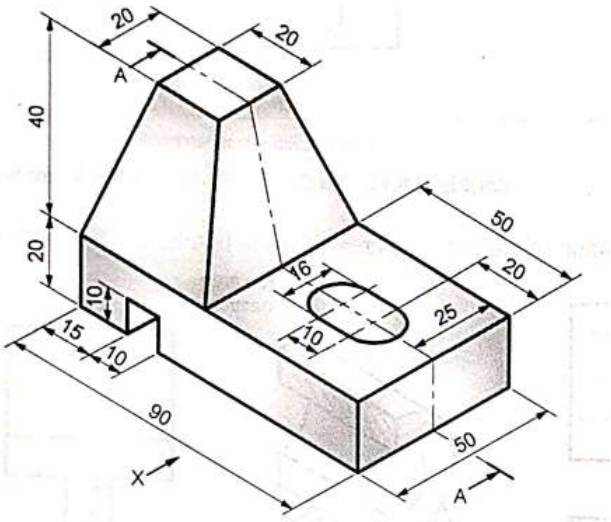
1.b) A 30^0 - 60^0 set square has its shortest edge 50 mm long and is in the H.P. The T.V. of the set square is an isosceles triangle. Draw projections when the hypotenuse of the set square is inclined at 40^0 to the V.P. (12) CO4

Question No. 2 Attempt following Question

2.a) Figure shows a pictorial view of an object. By using first angle method of projections, Draw; (16) CO3

i) Sectional front view, along X direction (section A-A)

ii) Right Hand Side view iii) Top View iv) Dimensions

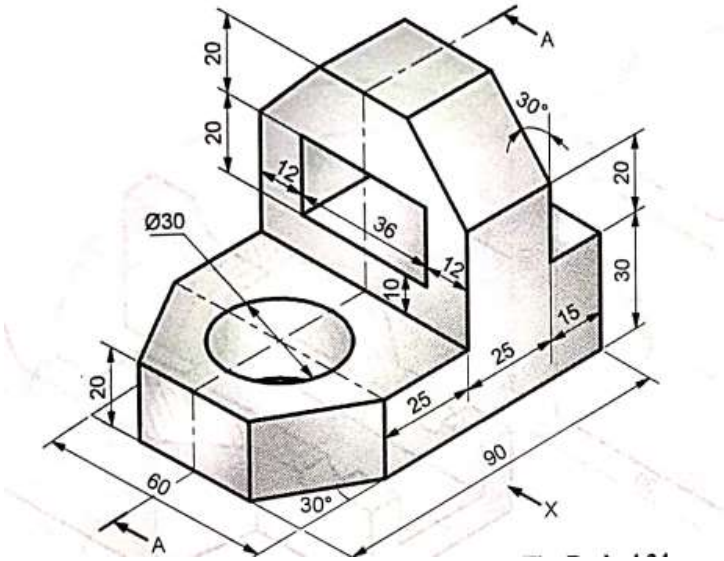


OR

2.b) Figure shows a pictorial view of an object. By using first angle method of projections, Draw; (16) CO3

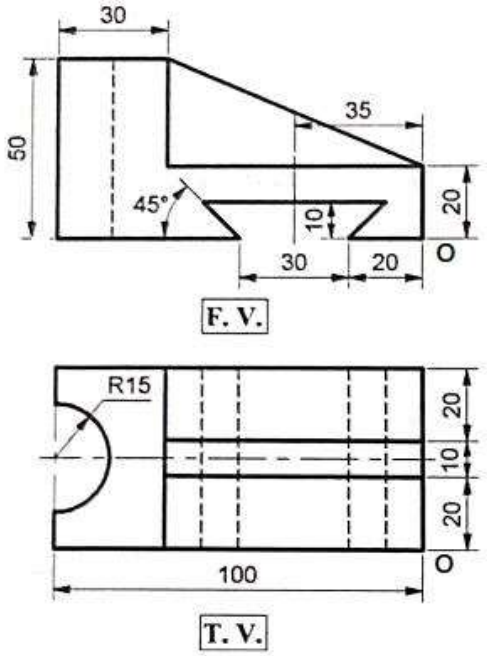
i) Sectional front view, along X direction (section A-A)

ii) Left Hand Side view iii) Top View iv) Dimensions



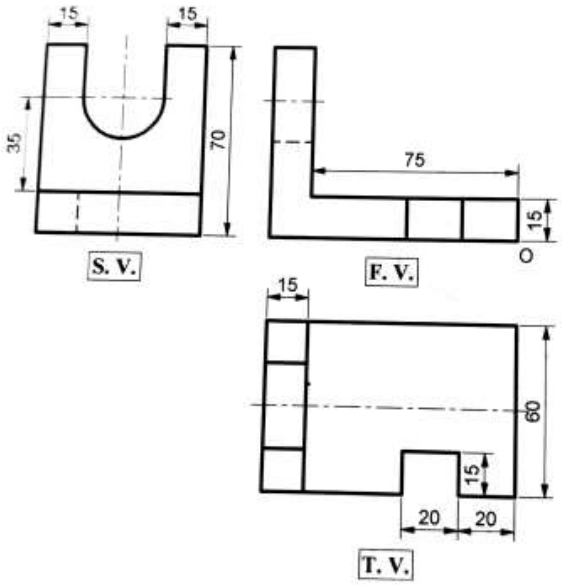
Question No. 3 Attempt following Question

3.a) Fig shows Front view, Top view. Draw isometric view and show overall dimensions. (16) CO3



OR

3.b) Fig shows Front view, Top view and Side view of a bracket. Draw isometric view and show overall dimensions (16) CO3



Question No. 4 Attempt following Question

4.a) A right circular cone of a base diameter 50mm and axis height 60mm has its base in H.P. It is cut by auxillary inclined plane (AIP) inclined at 45° to HP and bisecting the axis. Draw development of lateral surface (DLS) of cone (16) CO4

OR

4.b) A cylinder of diameter 60 mm and axis 90 mm is resting on its base on HP. It is cut by an auxillary inclined plane at 40° to HP passing through the centre of axis. Draw development of lateral surface (DLS) of cylinder (16) CO4

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