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| | WINTER-2023 | | |
| | Exam Seat No.: | | |
| | Academic Year: 2023-2024 | Semester: I | |
| | Name of Programme: F.Y. B. Tech | Pattern: 2023 | |
| | Name of Course: Engineering Drawing | Course Code: 2300110A | |
| | Max. Marks: 60 | Duration: 2.30hrs | |

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 3 pages.
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 indicate the Course Outcome of the Question/sub-question.

Question No. 1 Attempt following Question

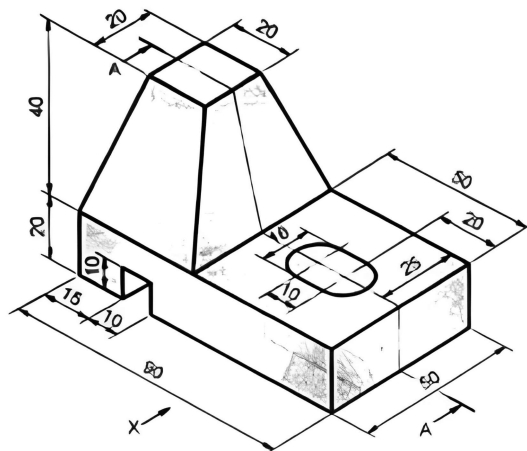
- 1.a) A line AB, 90 mm long is inclined at 30° to the HP. Its end A is 12 mm above the HP and 20 mm in front of the VP. Its front view measures 65 mm. Draw the Top view of AB and determine its inclination with the VP. (12) CO4

OR

- 1.b) A hexagonal plate is resting on one of its side on HP. The side on which it rests makes an angle of 45° with VP and the plate makes an angle of 45° with HP. Draw the projections of the plate. (12) CO4

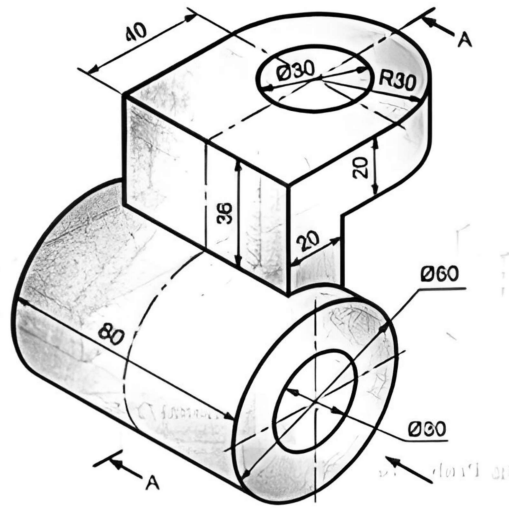
Question No. 2 Attempt following Question

- 2.a) Figure shows a pictorial view of an object. By using first angle method of projection draw Sectional Front view along A-A, Top view and Right-hand side view in the direction of X. (16) CO3



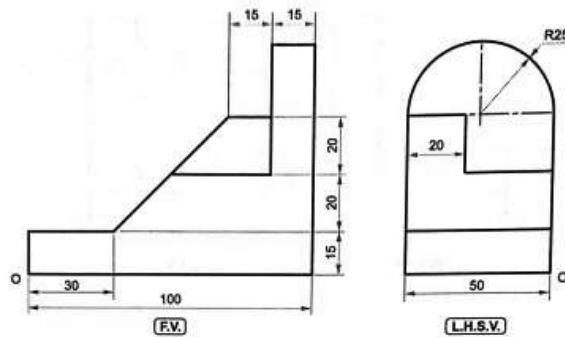
OR

- 2.b) Figure shows a pictorial view of an object. By using first angle method of projection draw Sectional (16) CO3
Front view along A-A, Top view and Left hand side view in the direction of arrow shown.



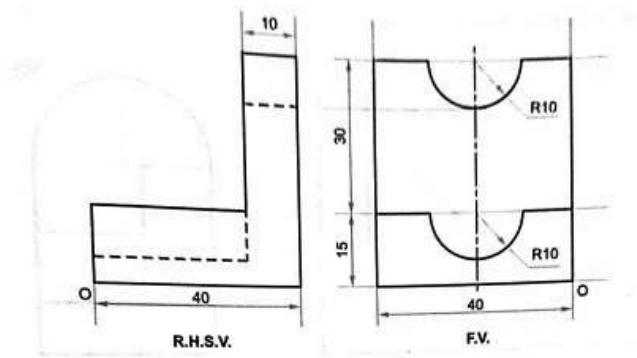
Question No. 3 Attempt following Question

- 3.a) Figure shows Front view and Left-hand side view of an object. Draw an isometric view and show (16) CO3
overall dimensions.



OR

- 3.b) Figure shows Front view and Right-Hand Side view of an object. Draw an isometric view and show (16) CO3
overall dimensions.



Question No. 4 Attempt following Question

- 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 retained part of cylinder. (16) CO4

OR

- 4.b) A pentagonal prism having side of base 35 mm and axis height 80 mm resting on HP on its base such that one of its edge of base parallel to VP. It is cut by a cutting plane which is inclined at 30° to HP and passing through midpoint of axis of the prism. Draw the development of lateral surface of the retained part of prism. (16) CO4