

CBCS 2025- SCHEME

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1BCEDC/M/EC/E/S103

First Semester B.E Degree Examination, Dec.2025/Jan.2026

COMPUTER AIDED ENGINEERING DRAWING

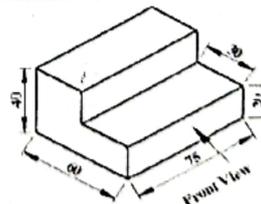
Time: 3 Hours

COMMON TO ALL BRANCHES

Max. Marks: 100

Note: i) Answer one full question from each Module, ii) Grid sheet may be provided for Sketching and
iii) CAD must be in A4 Sheet only

Q. No.	Module – I	Marks
1(a)	Draw the projections of the following points on the same XY line and state the Quadrants in which they lie: P – 10 mm above HP and 15 mm in front of VP and Q on HP and 50 mm behind VP	10
1 (b)	A line has its end A 10 mm above HP and 15 mm in front of VP. The end B is 55 mm above HP and line is inclined at 30° to HP. The distance between the projectors is 50 mm. Draw the projections of the line and determine their true length and true inclination with VP.	10
OR		
2	A rectangular plate of negligible thickness of size 35 mm x 20 mm has one of its shorter edges in VP with that edge inclined at 40° to HP. Draw the top view if its front view is a square of side 20 mm.	20
Module – II		
3	A hexagonal prism 25mm sides of base and 50 mm axis length rests on HP on one of its corners of the base such that the two base edges containing the corner on which it rests make equal inclinations with HP. Draw the projections of the prism when the axis of the prism is inclined to HP at 40° and appears to be inclined to VP at 45°	30
OR		
4	A square pyramid 35mm sides of base and 60 mm axis length rests on HP on one of its slant triangular faces. Draw the projections of the pyramid when the axis is inclined to VP at 45° .	30
Module – III		
5	A square prism of base side 35mm & height 55mm rests with its base on HP and two of its rectangular faces equally inclined to VP. Draw the development of lateral surfaces of the bottom portion of the cut prism if the cutting plane passes through top right extreme corner and bottom left extreme corner of the base.	25
OR		
6	A hexagonal pyramid 25mm side of base and axis 65mm long is resting on its base on HP with one of the edges of the base parallel to VP. It is cut by a vertical section plane at a distance of 8mm from the axis towards right side. Develop the lateral surface of the left part of pyramid.	25
Module – IV		
7	A sphere of diameter 30 mm rests on the top plane surface of the frustum of a square pyramid of base side 30 mm, top face 18 mm side and height 50 mm, such that their axis are coaxial. Draw the isometric view of the combination of solids.	25
OR		
8	Draw the top view, front view and side view of the following figure	25



Name & Signature of Examiner 1

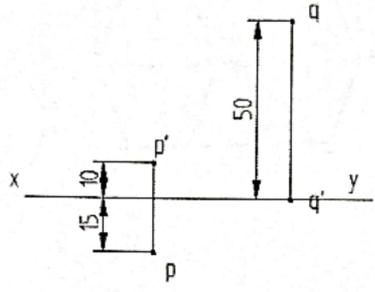
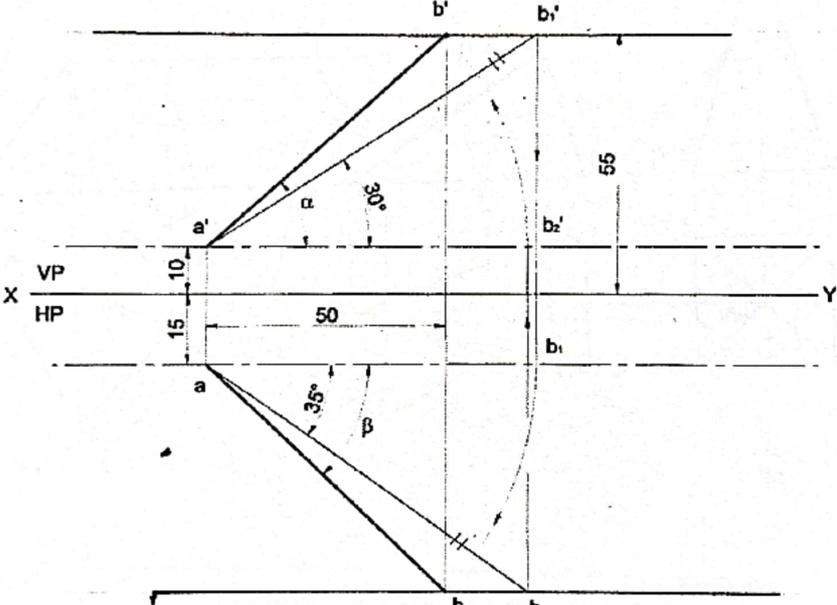
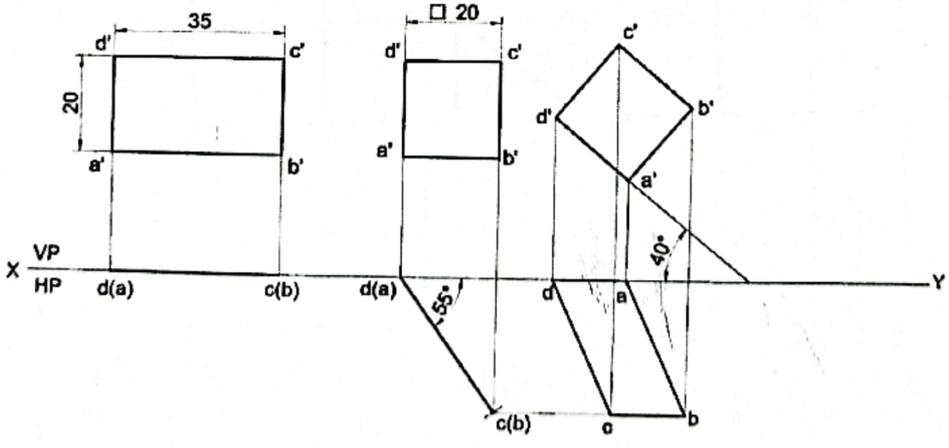
Name & Signature of Examiner 2



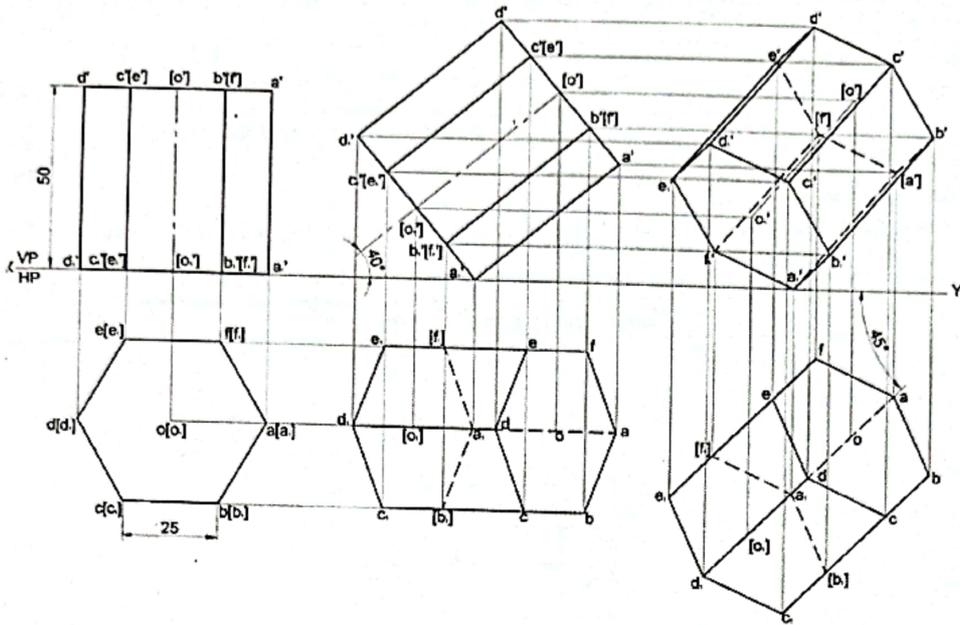
Department: Mechanical Engineering

Subject with Sub. Code: Computer Aided Engineering Drawing for CV Stream (IBCEDC103) Semester/Division: 1st

Name of Faculty: Dr. Shankar Badiger

Q.No.	Solution and Scheme	Marks
1 a)		10m
b)		10m
c)	<p style="text-align: center;"><u>OR.</u></p> 	6m 6m 8m

3)



10m

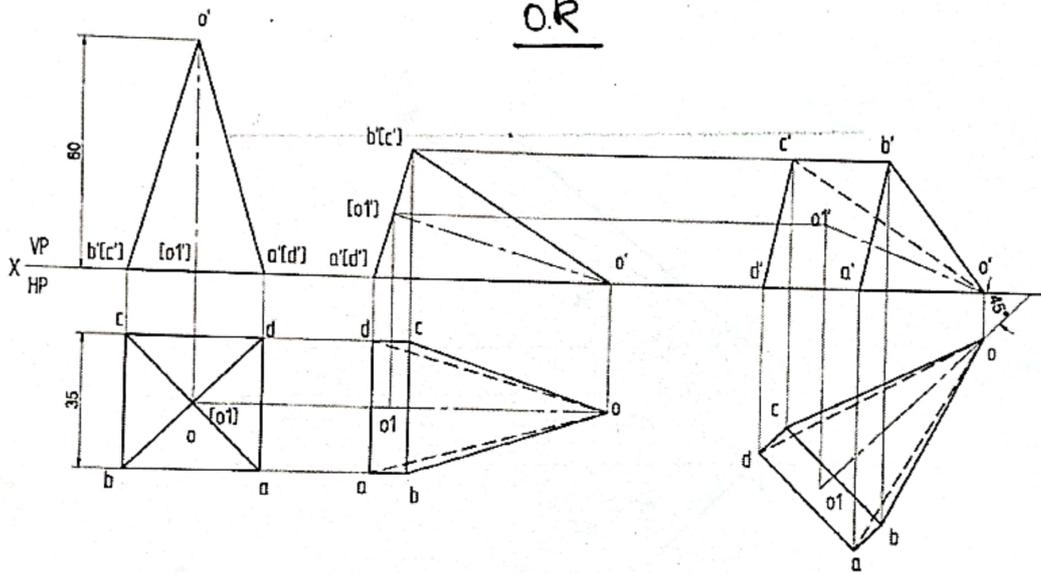
10m

10m

10m

4)

O.R

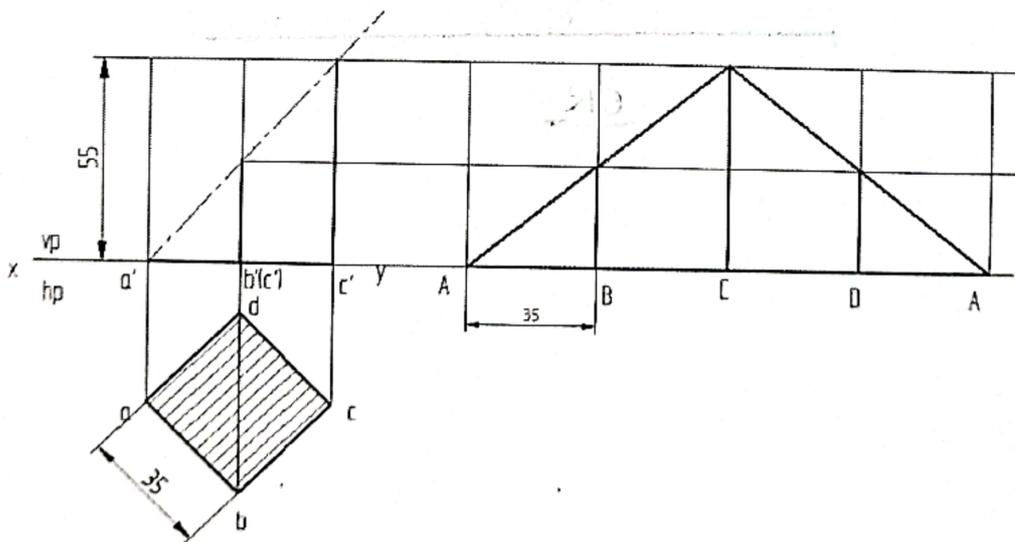


10m

10m

10m

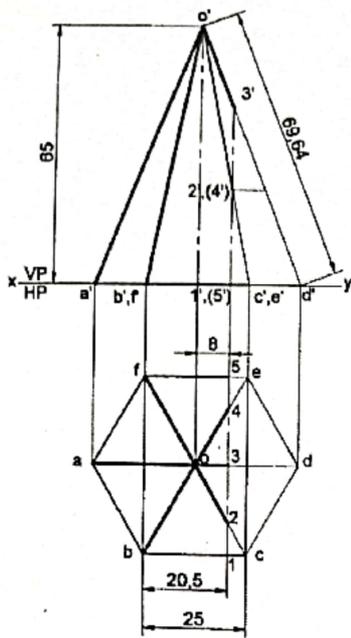
5)



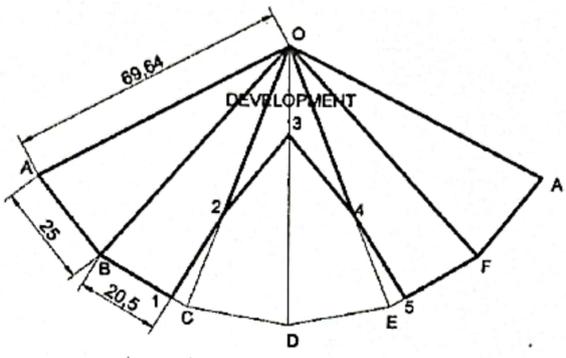
10m

15m

6)

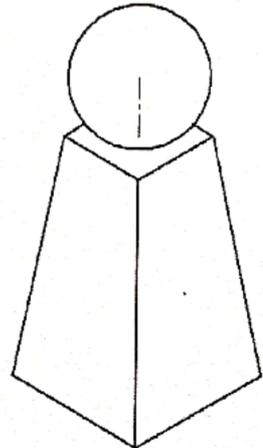


OR



100
150

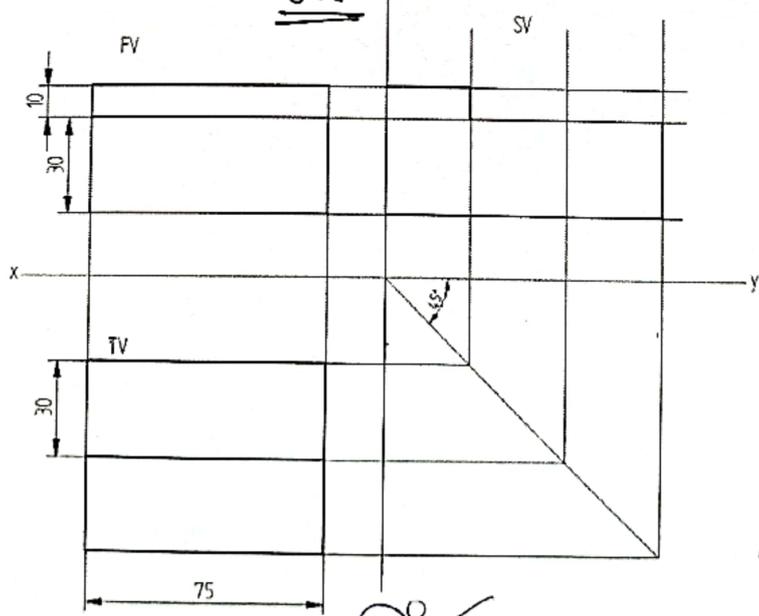
7)



120
130

8)

OR



80
80
90

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HOD

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