CBCS 2025- SCHEME

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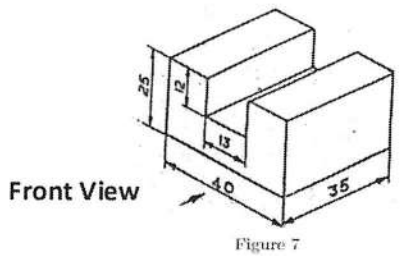
1BCEDC/M/EC/E/S103

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)	A point P is 30 mm in front of VP, 40 mm above HP and 50 mm from RPP. Draw its projections.	10
1 (b)	Draw the projections of a straight line AB, 100 mm long, inclined at 45^0 to HP and 30^0 to VP. The end A is in HP and the end B is in VP. Find the shortest distance between the straight line AB and the line of intersection of planes of projection.	10
	OR	
2	A regular hexagonal lamina of sides 25 mm is lying in such a way that one of its sides on HP while the side opposite to the side on which it rests is on VP. If the lamina makes 60° to HP. Draw the projections of the lamina.	20
	Module – II	
3	A cone of base diameter 40 mm and axis length 50 mm is resting on a point on the circumference of its base such that its apex is at 40 mm above HP and the top view of the axis is inclined at 60^0 to VP. Draw the top and front views of the solid. Also, determine the inclination of the axis with HP.	30
	OR	
4	A square pyramid 35mm sides of base and 60 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 pyramid when the axis of the pyramid is inclined to HP at 40^0 and appears to be inclined to VP at 45^0.	30
	Module – III	
5	A pentagonal prism of 30mm side of base and height 50mm lies with its base on HP such that one of the rectangular faces is inclined at 40^0 to VP. It is cut to the shape of a truncated pyramid with the truncated surface inclined at 30^0 to the axis so as to pass through a point on it 30mm above the base. Develop the truncated portion of the prism.	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 rectangular pyramid of base 40 mm x 25 mm and height 50 mm is placed centrally on a cylindrical slab of diameter 100 mm and thickness 30 mm. 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  Figure 7	25

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Name & Signature of Examiner 1 Name & Signature of Examiner 2