

CBCS 2025- SCHEME

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1BCEDC/M/EC/E/S103/203

First / Second Semester B.E Degree Examination, June/July 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 'M' is 30 mm in front of VP and 20 mm above HP. Another point N is 15 mm behind VP and 25 mm below HP. The horizontal distance between the points parallel to XY line is 50 mm. Draw the projections of the points M and N and join their front and top views. Draw the right side view for the point N only.	8
1 (b)	The top view of a line 75 mm long measures 50 mm. The end P is 30 mm in front of VP and 15 mm above HP. The end Q is 15 mm in front of VP and above HP. Draw the projections of the line and find its true inclinations with HP and VP.	12
OR		
2	A pentagonal lamina having edges 25 mm is placed on one of its corners on HP such that the perpendicular bisector of the edge passing through the corner on which the lamina rests is inclined at 30° to HP and 45° VP. Draw the top and front views of the lamina.	20
Module – II		
3	A hexagonal pyramid 25mm sides of base and 50 mm axis length rests on HP on one of its slant edge. Draw the projections of the pyramid when the axis appears to be inclined to VP at 45°	30
OR		
4	A hexagonal pyramid 25 mm 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 pyramid when the axis of the pyramid is inclined to HP at 40° and to VP at 30°.	30
Module – III		
5	A vertical cylinder of base diameter 50mm and axis length 60mm is cut by two planes which are perpendicular to VP and inclined at 45° to HP and passing through either side from the center point of the top face. Draw the development of the lateral surface of the cylinder.	25
OR		
6	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° to VP. It is cut by a cutting inclined at 30° to the axis passing through a point on it 30mm above the base. Develop the bottom portion of the prism.	25
Module – IV		
7	The frustum of a square pyramid of base side 40 mm, top 20mm and height 60 mm rests on the center of the top of a square block of side 60 mm and height 20 mm. The base edges of the pyramid are parallel to the top edges of the square block. 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 Front View Figure 7 25	

Name & Signature of Examiner 1

Name & Signature of Examiner 2