



CBCS 2022 – SCHEME

BCEDK103/203

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First/Second Semester B.E./B.Tech. Degree Examination, Dec.2023/Jan.2024

COMPUTER AIDED ENGINEERING DRAWING

Time: 3 Hours

(COMMON TO ALL BRANCHES)

Max.Marks:100

Note: 1. Answer all four full question.

2. Grid sheets may be provided for making preparatory sketches.

Module – 1		Marks
1 a	A point P is 15 mm above HP and 25 mm in front of VP. Another point Q is 25 mm behind VP and 40 mm below HP. Draw their projections when the distance between their projectors parallel to XY line is zero mm. Add the right side view only to point Q.	8
1 b	A line AB measuring 70 mm has its end A 15 mm in front of VP and 20 mm above HP and the other end B is 60 mm in front of VP and 50 mm above HP. Draw the projections of the line and find the inclinations of the line with both the reference planes of projection.	12
Module – 2		
2	A tetrahedron of 55 mm sides rests on one of its corners such that an edge containing that corner is inclined to HP at 50° and VP at 30°. Draw its projections.	30
Module – 3		
3	A sphere of diameter 50 mm rests centrally on top of a cube of sides 50 mm. Draw the isometric projections of the combination of solids.	25
Module - 4		
4	A square prism of base sides 30 mm and axis length 60 mm is resting on HP with all the vertical faces equally inclined to VP. It is cut by an inclined plane 60° to HP and perpendicular to VP and is passing through a point on the axis at a distance of 50 mm from the base. Obtain the development for the truncated portion of the solid.	25

Examiner 1:
Name:
Signature:

Examiner 2:
Name:
Signature: