CBCS 2021 – SCHEME

21EVN15/25

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

ENGINEERING VISUALIZATION

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.

Q. No.	Module - 1	Marks
1	A square lamina of 40 mm side rests on one of its sides on HP. The lamina makes 30° to HP and the side on which it rests makes 45° to VP. Draw its projections.	20
	Module - 2	
2	A pentagonal prism 25 mm sides of base and 50 mm axis length rests on HP on one of its edges of base. Draw the projections of the prism when the axis is inclined to HP at 45^0 and appears to be inclined to VP 40^0.	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 60^0 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: