USN

First / Second Semester B.E. Degree Examination, June/July 2025

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

Q. No.	Module – 1	Marks
1	A hexagonal lamina of sides 25 mm rests on one of its corners on HP. The corner opposite to the corner on which it rests is 35 mm above HP and the diagonal passing through the corner on which it rests is inclined at 30^0 VP. Draw its projections. Find the inclination of the surface with HP.	20
	Module – 2	
2	A cube of 30 mm sides is resting on one of its corners on HP such that one of its solid diagonals is perpendicular to VP. Draw the projections of the solid.	30
	Module – 3	
3	A sphere of 60 mm is placed centrally on the top face of a hexagonal prism side 35 mm and height 50 mm. Draw the isometric projection of the combination.	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: