USN

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

Q. No.	Module – 1	Marks
1 a	A point P is 25 mm above HP and 20 mm in front of VP. Another point Q is on HP and 30 mm behind VP. The distance between their projectors measured parallel to the line of intersection of VP and HP is 50mm. Find the distance between the top views of points P and Q.	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 15mm above HP. The ends 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
	Module – 2	
2	A square prism 35 mm 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 prism when the axis of the prism is inclined to HP at 40^0 and appears to be inclined to VP at 45^0.	30
	Module – 3	
3	A hemisphere of 40 mm diameter is supported co-axially on the vertex of a cone of base diameter 60 mm and axis length 50 mm. The flat circular face of the hemisphere is facing upside. Draw the isometric projection of the combination of solids.	25
	Module - 4	
4	Draw the development of the lateral surface of the cone, whose front view is as shown in following figure Q(4) **Figure Q(4)**	25

Examiner 1:
Name:
Signature:

Examiner 2:
Name:
Signature: