Set-2

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USN

School of Computer Science and Engineering

B.Tech (Hons.)

Midterm Question Paper

Academic Year 2024-2025

Course: Engineering Explorations-1		Course Code: CS1805	Semester: 1st
Time: 2:30 to 4:00 PM	Duration: 90 minutes	Date: 5/12/2024	Max Marks: 25

Notes/ Instructions:

a) **Answer all questions**

b) **All the Dimensions should be in mm & Use 1:1 scale ratio**

Sl. No.	Questions	Marks	L1-L6	CO
1.	Draw the projections of a line while AB 100 mm long inclined at 45° to VP and 30° to HP. One end of the line is 20 mm above the HP and in the VP. Also, determine the apparent length and inclinations.	5	L1-L3	CO2
2.	The distance between the end projectors through the end points of a line AB is 40 mm. The end A is 20 mm above HP and 15 mm in front of VP. The end B is 45 mm in front of VP and 65 mm above HP. Complete the projections. Find the true length of the line and its inclination with HP and VP.	5	L1-L3	CO2
3.	A pentagonal lamina having edges 25mm 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 appears to be inclined to VP 45°. Draw the top and front views of the lamina.	7.5	L1-L3	CO2
4.	A Hexagonal Lamina of sides 25 mm rests on one of its sides on HP. The lamina makes 45° to HP and the side on which rests make 30° to VP. Draw its projections.	7.5	L1-L3	CO2

Course Outcomes

1. Utilize the CAD drawing software to create 2D drawings
2. Sketch the orthographic projections of points, lines, Planes and Solids.
3. Sketch and draw Isometric projection of single and multiple solids using the software
4. Identify and create the interdisciplinary engineering components or systems through its graphical representation.

Marks Distribution

L1	L2	L3	L4	L5	L6	CO1	CO2	CO3	CO4
5	5	15	-	-	-	-	25	-	-

L1- Remember, L2- Understand, L3 – Apply, L4- Analyse, L5 – Evaluate, L6 – Create