Name: **Enrolment No:**	

UPES

End Semester Examination, May 2025

Course: Engineering Graphics **Semester: II**

Program: B.Tech Biomedical/FoodTech Engineering **Time : 03 hrs.**

Course Code: MECH1001 **Max. Marks: 100**

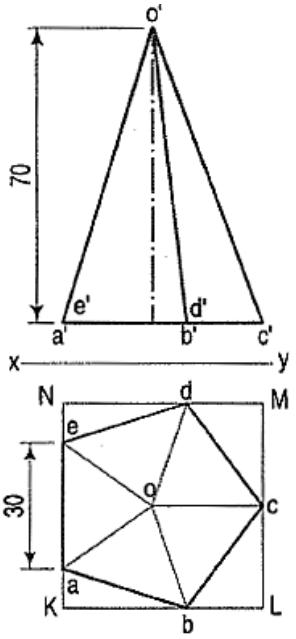
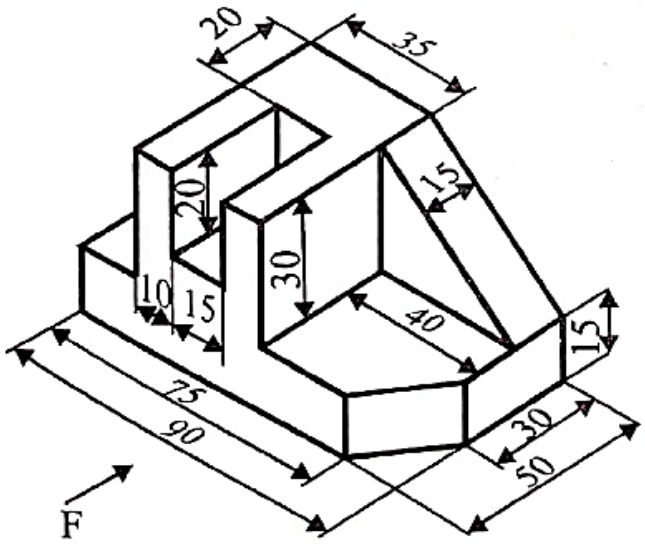
Instructions: NA

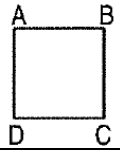
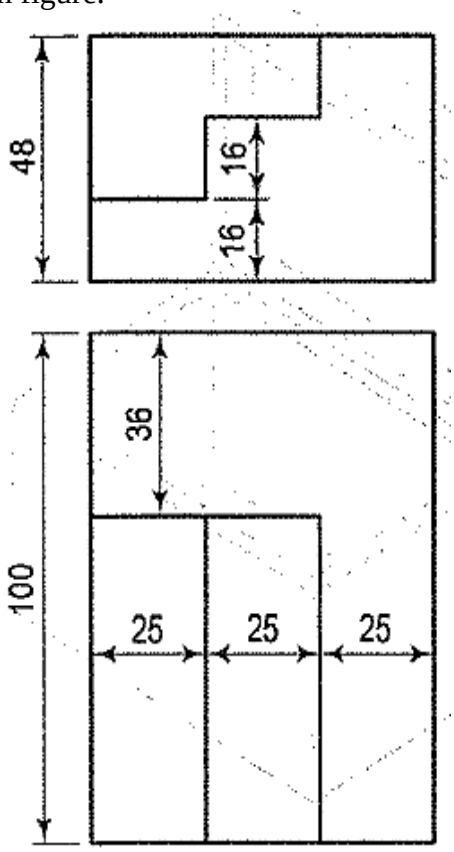
SECTION A
(5Qx4M=20Marks)

S. No.		Marks	CO
Q 1	Define isometric projection. How does it differ from an isometric drawing?	**4**	**CO1**
Q2	What do you mean by Lettering? Distinguish between Lettering 'A' types and Lettering 'B' types with suitable diagram?	**4**	**CO2**
Q 3	Differentiate between First and Third angle Projection?	**4**	**CO2**
Q 4	Show by sketches the difference between (i) continuous or chain dimensioning and, (ii) progressive or parallel dimensioning. What are the advantages of one above the other?	**4**	**CO1**
Q 5	Define the following: a. Extension Line b. Leaders line c. Dimension Line termination d. Isometric Scale	**4**	**CO2**

SECTION B
(4Qx10M= 40 Marks)

Q 1	List down the important characteristics of projection of plane?	**10**	**CO2**
Q 2	Classify the drawing based upon the number of orthographic views? OR What is axonometric projection? How is it classified?	**10**	**CO2**
Q 3	Two points P and Q are in HP. Point P is 30 mm in front of VP. While point Q is behind the VP, the distance between the projectors of P and Q is 70 mm and the line joining their top views makes an angle of 45^{o} with	**10**	**CO3**

	the reference line. Draw the projections of line PQ and hence find the distance of point Q behind the VP.		
Q 4	The projection of a pentagonal pyramid is given below. Draw its isometric view.  	**10**	**CO4**
	SECTION-C **(2Qx20M=40 Marks)**		
Q 1	Pictorial view of an object is given. Using the First Angle Projection, Draw it's a) Front View, b) Top View and c) Side View  OR a) Write down about the arrangements of dimensioning that are used for dimensions with the help of neat sketch?	**20**	**CO5**

	b) The front view of a square is given below. Draw its isometric view.  		
Q 2	Draw the isometric views from the given orthographic view of objects, which are shown in figure.  	**20**	**CO5**