R25 Regulation *Subject code:5ES1AI, 5ES1AH & 5ES1AJ*

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

(Autonomous, Accredited by NAAC with 'A+' Grade)

B.Tech I Semester Supplementary Examinations, June 2026

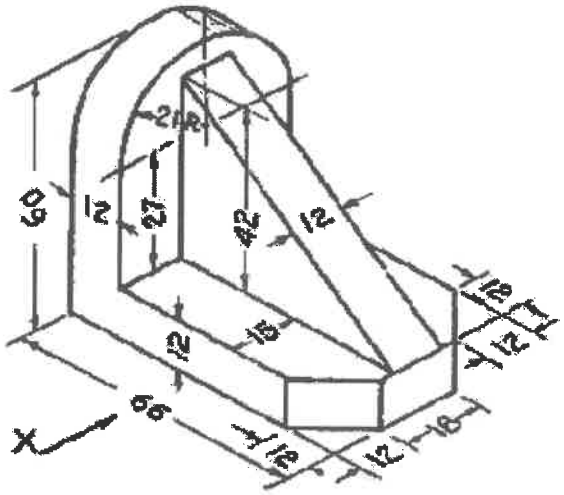
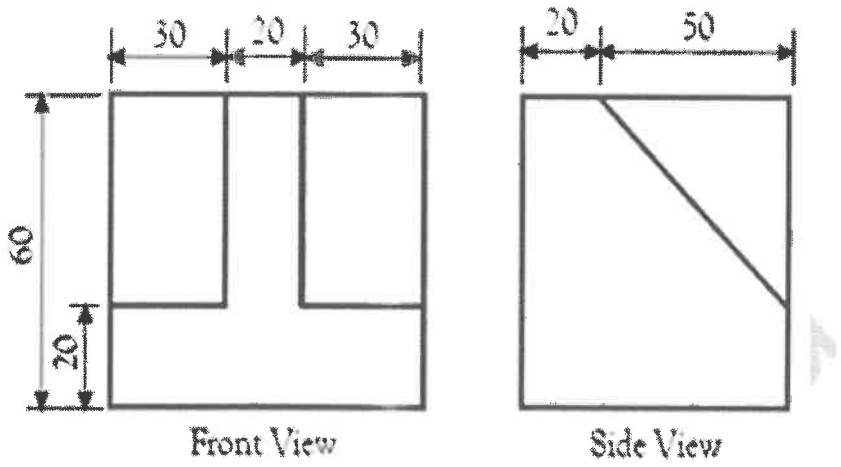
ENGINEERING DRAWING AND COMPUTER AIDED DRAFTING

(Common to CSE, EEE & CSE(AI&ML))

Maximum Marks: 60 Date:25.06.2026 **Duration: 3 Hours**

Note: 1. Consists of 10 questions unit wise choice. Answer any 5 questions.
2. Each question carries equal marks.

Answer all the questions. (5X12M=60Marks)		Marks	CO	BTL
1	Trace the path of the curve when the distance of its focus from its directrix is 55 mm and eccentricity is 2/3. Also draw a tangent and normal to it at 42 mm from the axis.	12M	L3	CO1
	OR			
2	Construct a scale of 1:40 to read meters, decimeters and centimeters and long enough to measure up to 6m. Mark a distance of 4.76m on it.	12M	L3	CO1
3	Draw the projection of the following points on a common reference line x-y. Point A, 25 mm behind V.P and 30 mm below H.P Point B, 30 mm in front of V.P and 40 mm above H.P Point C, 20 mm behind V.P and 30 mm above H.P Point D, 30 mm below H.P and in V.P Point E, 25 mm in front of V.P and 40 below H.P	12M	L3	CO2
	OR			
4	A line AB, 82mm long is 30mm above HP and 45mm in-front of VP. The line is inclined at 30^0 to HP and 50^0 to VP. Draw its Projections.	12M	L3	CO2
5	A Pentagonal Prism of base side 30mm axis length 60mm has its axis inclined to HP at 30° and its edge inclined to VP at 45°. Draw its projections	12M	L3	CO3
	OR			
6	A hexagonal pyramid, base 30mm side and axis 65mm long is resting on its base of the HP, with two edges of the base parallel to the VP. It is cut by a section plane perpendicular to the VP and inclined at 45^0 to the HP, intersecting the axis at a point 25mm above the base. Draw the front view, sectional top view, sectional side view and true shape of the section.	12M	L3	CO3
7	Draw the development of a Square Prism of base side 40mm axis length 60mm is sectioned by a plane inclined at 35° to HP and passing through midpoint of the axis of the cylinder	12M	L3	CO4

	OR			
8	Draw the development of a cone of diameter 50mm axis length 65mm is sectioned by a plane inclined at 35° to HP and passing through midpoint of the axis of the cone.	12M	L3	CO4
9	Draw the front view, top view and side view of the figure shown below. All dimensions are in mm 	12M	L3	CO5
	OR			
10	Draw the orthographic projection into isometric projection. 	12M	L3	CO5