R25 Regulation *Subject code:5ES2AE*

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

B.Tech II Semester Regular Examinations, June 2026

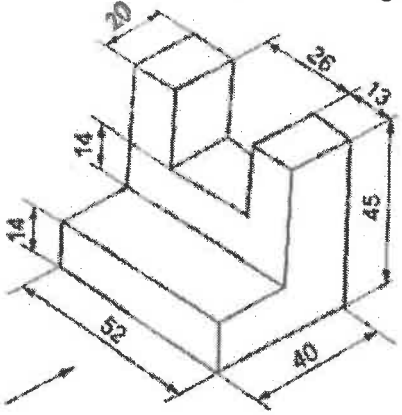
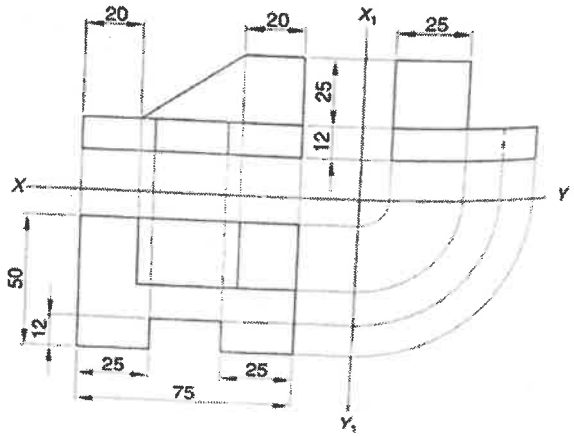
ENGINEERING DRAWING AND COMPUTER AIDED DRAFTING

(ECE)

Maximum Marks: 60 Date:22.06.2026 **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	A Fixed point is at a distance of 40mm from fixed straight line trace the path of the curve if e = 2/3. Draw tangent and normal to it at a dist. of 50mm from directrix.	12M	1	3
	OR			
2	Draw a hypocycloid for a rolling circle of diameter 75 mm and a base circle of 250 mm diameter. Draw a tangent and a normal at any point on the curve.	12M	1	2
3	A line AB of 70 mm long has its end A at 10 mm above HP and 15 mm in front of VP its front view and top view measures 50 mm and 60 mm respectively. Draw the projections of the line and determine its inclinations with H.P and V.P.	12M	2	4
	OR			
4	A triangular plane is in the form of isosceles triangle of base side 30 mm and altitude 40 mm. its surface is perpendicular to both HP and VP. Draw its projections when the base side is parallel to the VP.	12M	2	2
5	A tetrahedron of side 45 mm is resting with one of its faces on the HP. Draw its projections when the edge of the face lying on HP is parallel to and 15 mm in front of VP.	12M	3	2
	OR			
6	A cylinder of base diameter 50 mm and axis 70 mm has a generator in the VP and inclined at 45° to the HP. Draw its projections.	12M	3	2
7	A pentagonal prism, having a base with a 30 mm side and a 70 mm long axis, is resting on its base on the H.P. such that one of its rectangular faces is parallel to the V.P. it is cut by a plane inclined at 45° with the reference line and passes through the mid-point of the axis. Drawing the development of the lateral surface of the truncated prism.	12M	4	3
	OR			
8	A cone of base diameter 50mm and axis 60mm is resting on its base on the HP. a section plane perpendicular to VP. And inclined at 45° to HP, bisects the axis of the cone. Draw the development of its lateral surface.	12M	4	3

9	Draw the front view, top view and side view of the figure.1.  Figure.1	12M	5	4
	OR			
10	Draw the orthographic projection into isometric projection.  	12M	5	4