R25 Regulation *Subject code:5ES2AF&5ES2AG*

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

B.Tech II Semester Regular Examinations, June 2026

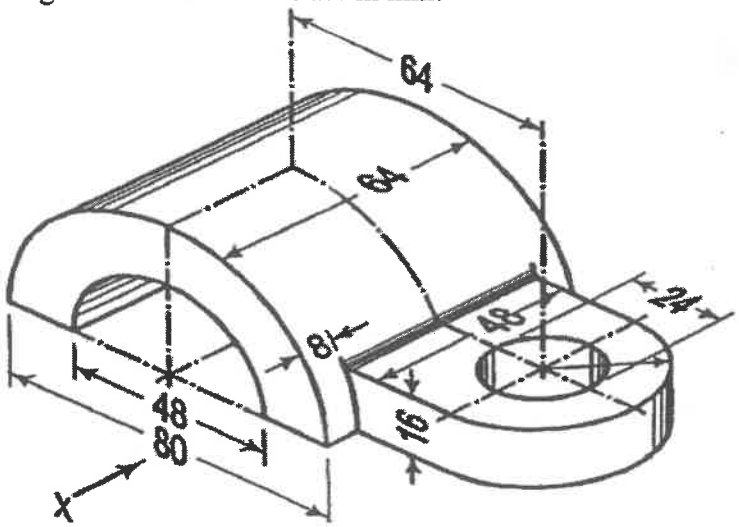
ENGINEERING DRAWING AND COMPUTER AIDED DRAFTING

(Common to CSE(DS) & IT)

Maximum Marks: 60 Date:24.06.2026 **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	Construct a hyperbola, with the distance between the focus and the directrix as 50mm and eccentricity as 3/2. Also, draw normal and tangent to the curve at a point 30mm from the directrix.	12M	1	3
	OR			
2	A circle of diameter 50mm rolls on a horizontal line for one revolution trace the path of curve. Also draw tangent and normal to it.	12M	1	3
3	Line AB is 55 mm long and it is 25° & 45° inclined to HP & VP respectively. End A is 15 mm above HP and 15 mm in front of VP. Draw projections.	12M	2	4
	OR			
4	A pentagonal plate of side 40 mm is held on V.P. on one of its corners. The edge opposite to that corner makes an angle of 55° with the H.P. The flat surface of pentagon is inclined at 30° to the V.P. Draw the projections.	12M	2	2
5	A pentagonal pyramid has height 60 mm and the side of a base 30 mm. The pyramid rests on one of its slant edges on the H.P. and makes an angle of 45 degrees with the V.P. Draw its projections.	12M	3	2
	OR			
6	A Cylinder of diameter 40mm axis length 70mm has its edge inclined to HP at 30° and its axis inclined to VP at 45°. Draw its projections.	12M	3	2
7	A square pyramid of base side 40 mm and axis 60 mm is resting on its base on the HP such that a side of the base is parallel to the VP. It is cut by a section plane perpendicular to the VP and inclined at 45° to the HP, bisecting the axis. Draw the development of its lateral surface.	12M	4	3
	OR			
8	A cylinder of base 50 mm diameter and axis 60 mm long is resting on its base on HP. It is cut by section plane perpendicular to VP and Inclined at 45° to HP and cuts all the generators from extreme left generator. Develop the lateral surface of the truncated cylinder.	12M	4	3

9	Draw the front view, top view and side view for the component shown in figure. All dimensions are in mm.  	12M	5	4
	OR			
10	Draw the isometric projection of a hemisphere of 4 cm diameter resting on its curved surface centrally on the top of a frustum of square pyramid with top face of 3 cm side and bottom face of 5 cm side having a height of 5 cm.	12M	5	4