R18 Regulation *Subject code:2E2AK*

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

B.Tech II Semester Supplementary Examinations, January 2026

ENGINEERING GRAPHICS

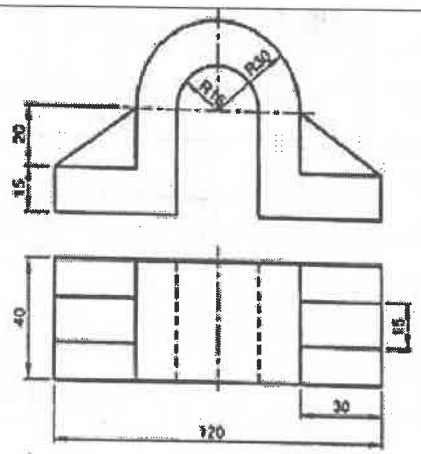
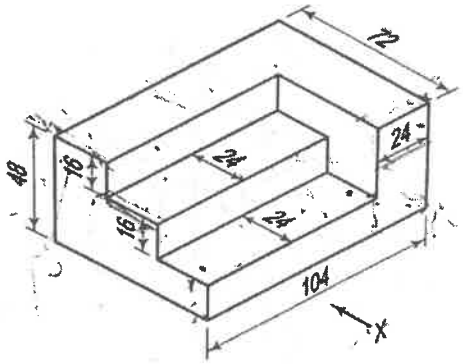
(Common to ECE & CSE)

Maximum Marks: 70 Date:24.01.2026 Duration: 3 hours

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

Part-A

All the following questions carry equal marks (5X14M=70 Marks)		Marks	CO	BTL
1	A Fixed point is at a distance of 50mm from fixed straight line trace the path of the curve if e = 3/2. Draw tangent and normal to it at a distance of 40mm from directrix.	14M	1	L1
	OR			
2	A line AB 75mm long is inclined to HP at 30° and to VP at 45°. Draw is projections when one of the end is 20mm above HP and 30mm in front of VP.	14M	1	L1
3	Draw a projection of a pentagonal pyramid of base 30mm, axis 50mm long having its base on HP and an edge of the base parallel to VP. Draw its projections	14M	2	L1
	OR			
4	A Pentagonal Plane of side 30mm is inclined to HP at 30° and its surface is inclined to VP at 45°. Draw its Projections.	14M	2	L1
5	A cone of Diameter 50mm axis length 65 mm is resting on one of its generators on HP draw its projections.	14M	3	L1
	OR			
6	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.	14M	3	L1
7	The end A of a line AB is 20 above and 30 in front of VP, While the end B is 50 above and 55infront of VP. The distance between projectors are 60mm apart Draw the projections and determine its inclinations.	14M	4	L1
	OR			
8	Draw the Isometric Projections for the following figures.	14M	4	L1

				
9	Draw the development of a Hexagonal Prism of base side 30mm axis length 60mm.	14M	5	L1
	OR			
10	Draw the front view top view and side view for the following figure. 	14M	5	L1