R20 Regulation *Subject code:3E2AP&3E2AQ*

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

B. Tech II Semester Supplementary Examinations, June 2026

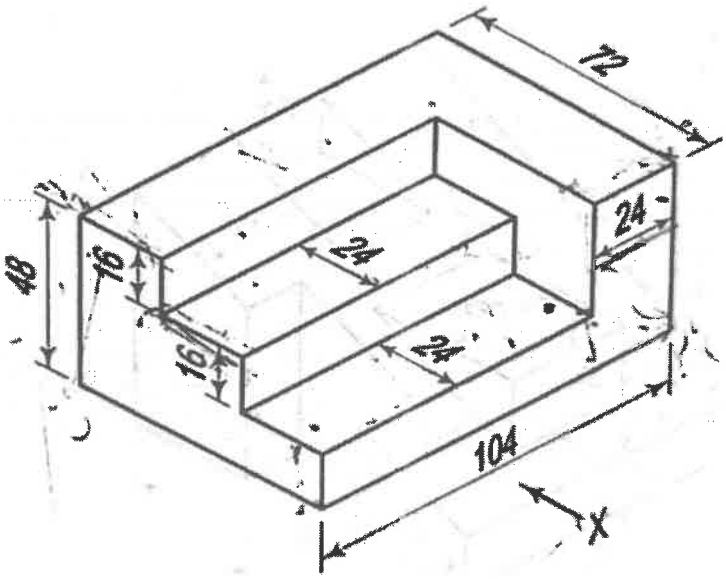
ENGINEERING GRAPHICS

(Common to EEE & ECE)

Maximum Marks: 70 Date: 22.06.2026 Duration: 3 hours

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

All the following questions carry equal marks (14X5M=70 Marks)		Marks	CO	BTL
1	A circle of 40 mm diameter rolls outside on another circle of diameter 100mm for one revolution. Trace the path of the curve.	14M	1	L1
	OR			
2	A Fixed point is at a distance of 50mm from fixed straight line trace the path of the curve if e =2/3. Draw tangent and normal to it at a dist. of 40mm from directrix.	14M	1	L1
3	A line AB 100mm long has its front view inclined at an angle of $45^0$to XY. The point A is in the VP and 25mm above the HP. The length of the front view is 60mm. Draw the top view of the line and measure its length also find its inclination of AB with HP and VP.	14M	2	L1
	OR			
4	Draw the projections of a circular plane with a 50mm diameter, resting on a point A on its circumference in the HP such that its surface is inclined at 30° to VP and inclined to HP at 45° draw its projections.	14M	2	L1
5	A Square lamina ABCD with side 40mm has its corner A in the HP its diagonal AC is inclined at 45° to HP. While the diagonal BD is parallel to HP and inclined at 30° to VP. Draw its projections.	14M	3	L1
	OR			
6	A Hexagonal Plane of side 30mm is inclined to HP at 30° and its surface is inclined to VP at 45°. Draw its Projections draw its projections when one of the side is perpendicular to HP.	14M	3	L1
7	A Pentagonal Pyramid of side 30mm axis length 70mm has its axis inclined to HP at 30° and its edge inclined to VP at 45°. Draw its projections.	14M	4	L1
	OR			
8	A Pentagonal Pyramid of side 30mm axis length 70mm has its base resting on HP such that its rectangular face is parallel to VP .It is cut by a plane inclined at 45^0 to the H.P bisecting the axis. Draw the development.	14M	4	L1

9	A Cone is placed centrally on the top of a cube with 40mm side which is placed centrally over a cylindrical block. The cone has base diameter 30mm and axis length 40mm. The cylindrical block has 80mm base diameter and 10mm thickness. Draw the isometric projection.	14M	5	L1
	OR			
10	Draw front View top vies and side view for the following figure: 	14M	5	L1