



R18 Regulation

Subject code:2E1AE

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

B.Tech I Semester Supplementary Examinations, July 2025

ENGINEERING GRAPHICS
(Common to CE, EEE, ME & IT)

Maximum Marks: 70

Date: 18.07.2025

Duration: 3 hours

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

Part-A

Answer ANY FIVE QUESTIONS

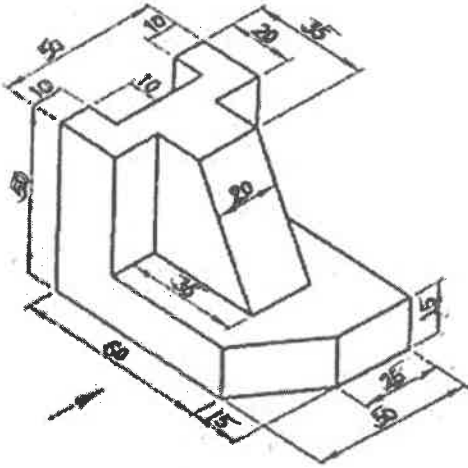
(10MX7=70Marks)

1	A fixed point is at a distance of 55mm from fixed straight line. Name the curve, Trace the path of the curve if $e=1$
OR	
2	A circle of 40mm diameter rolls inside another circle of radius 80 mm from one revolution trace the path of the curve.
3	Draw the projections of the following points on the same ground line, keeping the projectors 25mm apart. i. On the H.P & 20mm behind the V.P ii. 40mm above the H.P & 25mm in front of the V.P iii. On V.P & 40mm above H.P iv. 25mm below the H.P & 25mm behind the V.P v. 15mm above H.P & 50mm behind the V.P vi. 40mm below the H.P & 25mm in front of V.P Situated on both planes
OR	
4	A line AB 100mm long has its front view inclined at an angle of 45° 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.
5	Hexagonal Prism has 1 of its rectangular face parallel to HP, Its axis is perpendicular to VP and 35mm above the ground, Draw its projections when the nearer end of the prism is 20mm in front of VP. Consider side as 30mm, axis 50mm. Draw its views.
OR	
6	A hexagonal pyramid base 30mm axis 60mm is resting on its base on H.P. with 2 edges of base parallel to V.P. It is cut by a sectional plane perpendicular to V.P. and inclined at 45° to H.P. and intersecting axis at a point of 25mm above the ground.
7	A cube of 35 mm long edges is resting on HP on one of its faces is a vertical face inclined at 30degrees to VP .it is cut by a sectional plane parallel to VP and 9 mm away from the axis and further away from the VP.

OR

8 A Pentagonal Plane of side 40mm has a circular hole of dia 20 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.

9 Draw the Ortho. projection of given objects in 3 views(FV, TV, SV Respectively)



OR

10 Draw the Isometric Projections for the following figures.

