



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, July 2025

ENGINEERING GRAPHICS

(Common to EEE & ECE)

Maximum Marks: 70

Date: 17.07.2025

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

(14Mx5=70Marks)

1 A circle of 40 mm diameter rolls on a straight line for Half revolution and for the remaining Half on vertical line draw the curve traced by a point P on circumference of the circle taking the top most point on the revolving circle as the initial position of the generating point.

OR

2 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 dist. of 40mm from directrix.

3 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.

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.

5 A Hexagonal Plane of side 30mm is inclined to HP at 30° and its surface is inclined to VP at 45° . Draw its Projections when one of the side is perpendicular to HP.

OR

6 A cone of diameter 40mm axis length 65mm is resting on one of its generators on HP and is inclined to VP at 45° . Draw its projections.

