



R22 Regulation

Subject Code: 4E1DC

# TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

## B.Tech I Semester Supplementary Examinations, June 2024

### Computer Aided Engineering Graphics

(Information Technology)

Maximum Marks: 60

Date: 27.06.2024 Duration: 3 Hours

- Note:**
1. This question paper contains two parts A and B.
  2. Part A is compulsory which carries 10 marks. Answer all questions in Part A.
  3. Part B consists of 5 Units. Answer any one full question from each unit.
  4. Each question carries 10 marks and may have a, b, c, d as sub questions.

#### Part-A

All the following questions carry equal marks (10X1M=10 Marks)		CO	Bloom Tx
1	Define Eccentricity.	1	L1
2	Define a Cycloid	1	L1
3	Initial work and construction lines are drawn using _____ pencil.	2	L1
4	In II quadrant, the front view will be _____ the reference line..	2	L1
5	What is meant by pyramid	3	L1
6	What is meant by solid	3	L1
7	Applications of development of surface _____	4	L1
8	The form of sheet obtained by laying all outer surfaces of solid with suitable allowances for the joints is known as _____	4	L1
9	Orthographic projection is the representation of _____ views on the mutual perpendicular projection planes.	5	L1
10	A line AB is on the horizontal plane inclined to vertical plane at 45 degrees, _____ view gives the actual length of the line AB	5	L1

#### Part-B

Answer All the following questions. (5X10M=50Marks)			
11	Construct a scale of 1:40 to read meters, decimeters and centimeters and long enough to measure up to 6m. Mark a distance of 4.76m on it . [10]	1	L4
OR			
12	Draw an ellipse when the distance of its focus from its directrix is 50mm and eccentricity is 2/3. Also draw a tangent and a normal to the ellipse at a point 70mm away from the directrix. [10]	1	L4
13	Draw the projections for the following points keeping the distance between the projectors as 25mm on the same reference line. A point K on HP and 30mm in front of VP B 50mm below HP 30mm behind VP C 35mm below HP on VP D 50mm below HP 20mm in front of VP E on HP 30mm above 50mm behind VP [10]	2	L4
OR			
14	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 HP and it is inclined to VP at 45° draw its projections. [10]	2	L4

