



R22 Regulation

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

Subject Code:4E1DB

B.Tech I Semester Supplementary Examinations, September 2023
Computer Aided Engineering Graphics
(CSE)

Maximum Marks: 60

Date:05.10.2023 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)

- 1 Define Eccentricity.
- 2 Define a Cycloid.
- 3 Initial work and construction lines are drawn using _____ pencil.
- 4 In II quadrant, the front view will be _____ the reference line..
- 5 What is meant by pyramid
- 6 Define a cone.
- 7 Applications of development of surface _____
- 8 The form of sheet obtained by laying all outer surfaces of solid with suitable allowances for the joints is known as _____
- 9 Orthographic projection is the representation of _____ views on the mutual perpendicular projection planes.
- 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

Part-B

Answer All the following questions.

(10MX 5=50Marks)

- 11 Draw a Hyperbola when the distance of its focus from its directrix is 50mm and eccentricity is $\frac{3}{2}$. Also draw a tangent and a normal to the hyperbola at a point 25mm from the directrix. [10]
- OR
- 12 Draw a cycloid of a circle of diameter 60mm for one revolution. Also draw a tangent and a normal to the curve at a point 35mm above the base line. [10]
- 13 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. [10]
- 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 draw its projections. [10]
- 15 A Hexagonal pyramid of base side 30 mm and axis length 65 mm is inclined to H.P at 30° and its axis is inclined to V.P at 45° draw its projections. [10]
- OR
- 16 A cylinder of base diameter 30 mm and axis length 60 mm is inclined to H.P at 30° and its axis is inclined to V.P at 45° . Draw its projections. [10]

