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VIGNAN'S INSTITUTE OF MANAGEMENT AND TECHNOLOGY FOR WOMEN
(An Autonomous Institution)

I-B.Tech.-I-Semester Regular Examinations, February-2025

COMPUTER AIDED ENGINEERING GRAPHICS

Common to (CSE & IT)

Time: 3 Hours

Max. Marks: 60

(Answer All Questions)

Note: Question paper consists of Part-A & Part-B.

- **Part-A** for 10M, ii) **Part-B** for 50marks
- **Part A** is compulsory, consists of 10 sub questions from all units carrying equal marks.
- **Part-B** consists of **10 questions** (numbered from 2 to 11) carrying **10marks** each. From each unit there are 2 questions and the students should answer one of them. Hence the student should answer **5 questions** from **Part-B**.

PART-A

(10Marks)

- 1 a. What is diagonal scale? 1M
- 1 b. Enlist various types of conic sections. 1M
- 1 c. What is regular plane and irregular plane? 1M
- 1 d. Define a Straight Line. 1M
- 1 e. List out the different views in orthographic projections. 1M
- 1 f. Write note on three stages of obtaining projections of an oblique plane. 1M
- 1 g. Write about the development of lateral surface of prism. 1M
- 1 h. What type of solids can be accurately developed? 1M
- 1 i. Draw the isometric view of square with side 30mm in any one plane. 1M
- 1 j. Distinguish between isometric view and isometric projection. 1M

PART-B

(50Marks)

- 2 a The distance between two towns is 250 km and is represented by a line of length 50mm on a map. Construct a scale to read 600 km and indicate a distance of 530 km on it. **5M**
 - 2 b Construct a scale of 1:5 to show decimeters and centimeters and long enough to measure up to 1 m. Show a distance of 6.3 dm on it. **5M**
- OR
- 3 Draw an ellipse when the distance of its focus from its directrix is 50 mm and eccentricity is $\frac{2}{3}$. Also, draw a tangent and a normal to the ellipse at a point 70 mm away from the directrix. **10M**
 - 4 Draw the projections of the following points on a common reference line keeping the distance between their projectors 30 mm apart. **10M**
 - (A) Point A is 20 mm below the H.P. and 50 mm in front of the V.P.
 - (B) Point B is in the H.P. and 40 mm behind the V.P.
 - (C) Point C is 30 mm in front of the V.P. and in the H.P.
 - (D) Point D is 50 mm above the H.P. and 30 mm behind the V.P.
 - (E) Point E is 20 mm below the H.P. and 50 mm behind the V.P.

