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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

CSE [DS]

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 representative fraction? **1M**
- 1 b Define cycloid? **1M**
- 1 c. What are the types of projections? **1M**
- 1 d Draw the projection of 60 mm long straight line which is situated both on HP and VP **1M**
- 1 e. What is a profile plane? **1M**
- 1 f. Write two differences between a prism and pyramid? **1M**
- 1 g. Define development of surfaces? **1M**
- 1 h Identify the application of development of surfaces **1M**
- 1 i. Draw the isometric view of square with side 40mm in T.V. **1M**
- 1 j. Distinguish between isometric view and isometric projection. **1M**

PART-B

(50Marks)

- 2 Draw A parabola with the distance between directrix and focus as 60 mm. Draw normal and tangent at any point on the curve. **10M**
OR
- 3 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. **10M**
- 4 A line AB of length 70 mm is inclined at an angle 30° to the HP and 45° to the VP the end A is 20 mm above HP and 30 mm in front of VP **10M**
draw the projection of the line.
OR
- 5 Draw the projection of a triangular lamina of side 50 mm which has a side parallel to the HP and inclined at 45° to the VP the surface is inclined at 30° to the HP **10M**
- 6 A pentagonal prism of base side 30 mm and axis 60 mm has an edge **10M**

