Roll No.:.....

# National Institute of Technology, Delhi

**Name of the Examination: B. Tech.**

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|---|---|---|---|
| **Branch** | **: ECE /EEE** | **Semester** | **: 2nd** |
| **Title of the Course** | **: ENGINEERING VISUALIZATION** | **Course Code** | **: MEB 100** |

**Time: 3 Hours** **Maximum Marks: 50**

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1. Front view of line AB is 50 degree inclined to XY line and measure 55 mm long. While its Top view is 60 degree inclined to XY line. If end A is 10 mm above HP and 15 mm in front of VP. Draw its projections, find true length, angle of inclination of line with HP and VP. [7]

2. A regular pentagonal plane ABCDE of 40 mm side has side AB in the HP making an angle of 150 with the VP. The plane makes angle of 500 with HP and the point D lies in the VP. Draw its projections. [10]

3. A sphere of 50mm diameter rests centrally over a square slab of side 50mm and thickness of slab is 15mm. Draw its isometric projection. [10]

4. Draw a Vernier scale of RF = 1 / 25 to read centimeters up to 4 meters and on it, show lengths 2.39 m and 0.91 m. [7]

5. Draw an ellipse with 125mm major axis and 75mm minor axis using Method of Arcs. [6]

6. Draw the orthographic projection of given figure [10]