

# National Institute of Technology Delhi

Name of Examination: B. Tech.

MID-Semester Examination February-March, 2020

Branch	: ECE (Group-1)	Semester	: 2 <sup>nd</sup>
Title of Course	: Engineering Visualization	Course Code	: MEB100
Time: 1.5 Hours		Maximum Marks: 25	

**NOTE: 1. Attempt all questions and assume suitable data if necessary. Use of Mini-Drafter is mandatory.**

- Q. 1** Construct a diagonal scale of R.F.  $1/32$  showing yards, feet and inches and to measure up to 4 yards. Indicate a distance of 1.27 yards. **7 M**
- Q. 2** A coin of 40 mm diameter rolls over a horizontal table without slipping. A point on the circumference of the coin is in contact with the table surface in the beginning and after one complete revolution. Draw the path traced by the point. **8 M**  
Draw a tangent and normal at any point on the curve. Also write the drawing procedure.
- Q. 3** An 80 mm long line AB has the end A at a distance of 20 mm above HP and 40 mm in front of V.P. The line is inclined at 30 degree to H.P and parallel to V.P, **3 M**  
draw the projection of the line.
- Q. 4** The top view of a 75 mm long line CD measures 50 mm. C is 50 mm in front of the VP & 15 mm below the HP. D is 15 mm in front of the VP & is above the HP. Draw the FV of CD & find its inclinations with the HP and the VP. Also mention steps. **7 M**

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Good Luck