## Maulana Azad National Institute of Technology, Bhopal

B.Tech I Year I Semester MID Term Examinations, Feb-2022

Engineering Graphics (ME105)

<u>Date: 06/02/2022</u>

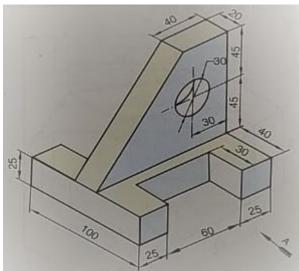
All questions carry equal marks

Max. Marks: 20

1. A ball is thrown up in the air reaches a maximum height of 150 meters and travel horizontal distance of 100 meters. Trace the path of the ball, assuming it to be parabolic. Take suitable scale.

Time: 1.5 Hrs.

- 2. Draw a hypocycloid of a circle of diameter 20 mm and a directing circle of radius 30 mm. Also, draw a normal and a tangent at any point on it.
- 3. Pictorial view of an object is shown below. Using first angle projection, draw front view, top view and any one side view. All dimensions are in mm. Assume any missing data suitably.



4. A point P is 25 mm infront of V.P. and 40 mm above the H.P. Another point Q is 40 mm infront of the V.P. and 25 mm above H.P. The distance measured between the projectors is 40 mm. Draw the projections and find the distance between P and Q.

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