MAULANA AZAD NATIONAL INSTITUTE OF TECHNOLOGY, BHOPAL

(An Institute of National Importance)

Mid Term Exam January 2023

B.Tech. SEM I   **Section: B**
Subject: Engineering Graphics   **Sub Code: ME 105**
Time: 90 Minutes   **Max. Marks: 20**

Note: Attempt all questions

Q.NO	Questions	Marks	CO & BT
1.	A line PQ measuring 70 mm has its end P 15 mm in front of the V.P. and 20 mm above H.P. and the other end Q is 60 mm in front of V.P. and 50 mm above H.P. Draw the projections of the line and find the inclination of the line with both the reference planes of projections and locate HT and VT.	05	2 & 5
2.	A regular pentagon ABCDE of side 30 mm is inclined at 45° to the VP and perpendicular to the HP. The side AB is perpendicular to the HP. Draw the projections of the pentagon.	05	2 & 5
3.	A regular hexagonal lamina of 25 mm side has a central hole of 30 mm diameter. Draw the front and top views when the surface of the lamina is inclined at 50° to H.P. A side of the lamina is inclined at 30° to V.P.	05	3 & 5
4.	A right regular pentagonal prism, side of base 30 mm and height 75 mm, rests on one of its base corners on HP such that its long edge containing the corner is inclined to the HP at 60° and the side of the base, opposite the corner, inclined at 30° to the VP. Draw its projections keeping the vertex towards the VP.	05	3 & 5

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