NAVRACHANA UNIVERSITY

School: School of Engineering and Technology
Program/s: B.Tech Mechanical, Electrical and Electronics and Civil Engineering
Year: 1st **Semester:** 1st
Examination: End semester Examination
Examination year: November – 2023

Course Code: CME 103 **Course Name:** Engineering Graphics
Date: 25/11/2023
Time: 10:00 to 12:00
Total Marks: 40
Total Pages: 01

Instructions:

➔ *Write each answer on a new page.*
➔ *Use of a calculator is permitted*

Q. No.	Details	Marks	COs	BTL
Q.1	**Attempt the following (Any 04, Each of 10 Marks)**	40		BT 1
			CO1	BT 2
	A. A cylinder 40 mm diameter and 50 mm axis is resting on one point of a base circle on VP while it's axis makes 45^0 with VP and FV of the axis 35^0 with HP. Draw projections.		CO2 CO3 CO4 CO5	BT 3 BT 4 BT 5
	B. A tetrahedron of 50 mm long edges is resting on one edge on HP while one triangular face containing this edge is vertical and 45^0 inclined to VP. Draw projections.			
	C. Draw the projections of a regular hexagon of 25mm sides, having one of its side in the H.P. and inclined at 60^0 to the V.P. and its surface making an angle of $45°$ with the H.P.			
	D. A regular octagon of 40mm side has a corner in the HP. Its surface inclined at $45°$ to the HP and the top view of the diagonal through the corner which is in the HP makes an angle of $60°$ with the VP. Draw its projections.			
	E. The F.V. of a line MN, 90 mm long, measures 65 mm. Point M is in V.P. and 20 mm below H.P. Point N is in the first quadrant. Draw the projections and find inclinations of line with H.P. and V.P.			

************End of Question Paper************