SHRI MATA VAISHNO DEVI UNIVERSITY, KATRA
School of Mechanical Engineering
B. Tech. (CSE / Civil) Major Examination (I Sem.) 2023 Batch

Entry No: 2 3 B C S 0 3 5

Total Number of Pages: [01]

Date: 23-12-2023

Total Number of Questions: [8]

Course Title: Engineering Graphics
Course Code: MEL 1039

Time Allowed: 03 Hours **Max Marks: [50]**

Instructions / NOTE

i. Attempt All Questions.
ii. Assume an appropriate data / information, wherever necessary / missing.

Q1.	A point 'T' is 20 mm above HP and 40 mm in front of VP. Draw its projections when point lies in First quadrant.	[02]	CO2
Q2.	A line UV 75 mm long, parallel to HP and inclined to VP at 40^0. Draw its projections when end point U is 20 mm above XY and 30 mm in front of VP.	[05]	CO2
Q3.	The T.V of a 75 mm long line PQ, measures 50 mm. End P is 15 mm below H.P and 50 mm in front of V.P. End Q is 15 mm in front of VP and it is above H.P. Draw projections of line and determine its angles with HP and V.P and also draw its traces.	[05]	CO2
Q4.	Draw the projections of a regular Hexagonal Plate of 30 mm sides, having one of its side in H.P. The plate is inclined at 60^0 to V.P.	[06]	CO4
Q5.	A right circular cone of 40 mm diameter and 50 mm axis is resting on one of its element on H.P such that its axis parallel to V.P. Draw its projections.	[06]	CO3
Q6.	F.V of line RS makes 45° angle with XY line and measures 60 mm. Its T.V makes 30° with XY line. Determine its true length, inclinations with H.P & V.P.	[06]	CO2
Q7.	A hexagonal pyramid, base 25 mm side and axis 50 mm long, has an edge of its base on the ground. Its axis is inclined at 30° to the ground and parallel to V.P. Draw its projections.	[10]	CO4
Q8.	Draw the projections of a Pentagonal prism, base 25 mm side and axis 50 mm long, resting on one of its rectangular faces on the H.P. with the axis inclined at 45° to the V.P.	[10]	CO4

Course Outcomes

Upon successful completion of this course, the student shall be able:
CO1. To learn basics of drawing including dimensioning.
CO2. To draw orthographic projections of points and lines and traces of line.
CO3. To draw orthographic projections of planes.
CO4 . To draw orthographic projections and section of solids.

CO	Questions Mapping	Total Marks	Total Number of Students (Appear in Exam)
CO2	1, 2, 3	12	120
CO3,CO4	4,5	12	
CO2, CO4	6,7,8	26	