

Assignment No: 1

Subject and Subject code: Engineering Graphics and Design (BTME-101-21) Semester: 1st

Date on which assignment given: 24.08.2023

Date of submission of assignment: 07.09.2023

Total Marks: 10

Course Outcomes:

CO 1:	illustrate and prepare drawings.
CO 2:	apply the principles of orthographic projections
CO 3:	analyze and visualize of two and three dimensional planes and solids respectively.
CO 4:	design and fabricate surfaces of different shapes.
CO 5:	construct the objects in three dimensional appearances.

Assignment related to COs		Marks	Relevance to CO No.
Q 1.	Write the following sentence in freehand, single stroke inclined uppercase letters in 16 mm height <i>“WRITING OF TITLES, DIMENSION VALUE, NOTES AND OTHER PARTICULARS ON A DRAWING IS CALLED LETTERING.”</i>	2	CO-1
Q 2.	Construct a diagonal scale to read meters, decimeters and centimeters and long enough to measure upto 5 meters when one meter is represented by 3 centimeters. Find RF and indicates a distance of 438 centimeters.	2	CO-1
Q 3.	A point R is 45 mm below HP and 35 mm behind VP. Determine its least distance from xy line.	2	CO-2
Q 4.	A line PQ 60 mm long makes an angle of 45° to HP and 30° to VP. The end A is 15 mm in front of VP and 25 mm above HP. Draw the projection of the line AB.	2	CO-2
Q 5.	Briefly explain AutoCAD along with its various advantages. Also mention the various co-ordinate systems used in AutoCAD with neat sketch.	2	CO-5