



B. Tech I Semester Supplementary Examinations, January 2026
ENGINEERING GRAPHICS
(Common to CE, ME, CSE, IT, CSE(AI&ML) & CSE(DS))

Maximum Marks: 70

Date: 21.01.2026

Duration: 3 hours

Note: 1. Part A consists of 5 Units. Answer any one full question from each unit.
 2. Each question carries 14 marks and may have a, b, c, d as sub questions.

Part-A

All the following questions carry equal marks (14MX5=70 Marks)		Marks	CO	BTL
1	A fixed point is at a distance of 60 mm from fixed straight line. Name the curve. Trace the path of the curve if $e = 1$	14M	1	L1
OR				
2	A circle of 40 mm diameter rolls on a horizontal line for one revolution clockwise trace the path of the curve. Also draw tangent and normal to it at 40 mm from base line.	14M	1	L1
3	Line AB 75mm long makes 45° inclinations with VP while its FV makes 55° . end A is 10 mm above HP and 15 mm in front of VP. If line is in 1st quadrant draw its projections and find its inclination with HP	14M	2	L1
OR				
4	A 60mm long line PQ has its end P 20mm above H.P. the line is perpendicular to the H.P. and 40mm in front of the V.P. Draw its projections and locate the trace.	14M	2	L1
5	Hexagonal Prism has one of its rectangular face parallel to HP, Its axis is perpendicular to VP and 35mm above the ground, Draw its projections when the nearer end of the prism is 20mm in front of VP. Consider side as 30mm, axis 50mm. Draw its views.	14M	3	L1
OR				
6	A cube of 35 mm long edges is resting on H.P. on one of its faces is a vertical face inclined at 30° to V.P. it is cut by a sectional plane parallel to V.P. and 9 mm away from the axis and further away from the V.P.	14M	3	L1
7	Draw the Ortho projection of given objects in 3 views (FV, TV, SV Respectively).	14M	4	L1

