

HBTU Logo	Harcourt Butler Technical University, Kanpur			MID SEM I
Branch	EE&ET		Program	B.Tech.
Course Name	Engineering Graphics		Semester	II
Course Code	NCE 104		Year/Session	2025-26
Time: 1 hr			Max. Marks	15
Knowledge Level (KL)	K1: Remembering K2: Understanding	K3: Applying K4: Analysing	K5: Evaluating K6: Creating	

Note: Attempt all questions. All questions carry marks as shown against them.

Q. No	Questions	Marks	COs	KL
1a	Write a sentence below in capital single stroke letters of size 20 mm. “HARD WORK IS THE KEY TO SUCCESS	3	CO1	
1b	A city bus is running at a speed of 50 km/hr. Construct a diagonal scale to show 1 km by 3 cm and to measure up to 6 km. Also mark on the scale the time taken by the bus to cover a distance of 4.56 km.	4	CO1	
1c	Divide an 80 mm long straight line in proportion of 2:3:4.	3	CO1	
2a	Draw the projections of the following points on a common reference line keeping the distance between their projectors 30 mm apart. (a) Point A is in the H.P. and 45 mm behind the V.P. (b) Point B is 35 mm in front of the V.P. and in the H.P. (c) Point C is 56 mm above the H.P. and 37 mm behind the V.P.	3	CO2	
2b	A 50 mm long line PQ has its end P 30 mm above H.P. The line is perpendicular to the H.P. and 40 mm in front of the V.P. Draw its projections.	2	CO2	