Question paper pattern

Subject – Engineering Graphics

CA-I

Time: 1 Hour

Q1	Solve any One	Max. Marks	CO	BT
i.	Module 1	10	CO1	BT1
ii.	Module 1	10	CO1	BT1

Q2	Solve any One	Max. Marks	CO	BT
i.	Module 2	10	CO1	BT1
ii.	Module 2	10	CO1	BT1

Questions on Module 1:

Problem 1: Draw an involute of regular hexagon of side 25mm. Also draw tangent and normal at any point on the curve.

Problem 2: Draw an involute of a circle of having diameter 50mm. String length is equal to the circumference of circle. Also draw tangent and normal at any point on the curve.

Problem 3: A circle of diameter 50 mm rolls without slip on a horizontal straight line for one revolution. Draw the locus of a point P which is initially at the bottom of the circle. Also draw tangent and normal at any point on the curve.

Problem 4: Draw the locus of a point P which is initially at the bottom of the circle. Also draw tangent and normal at any point on the curve.

Questions on Module 2:

Problem 1: Line AB is 75 mm long and it is 30° & 40° inclined to HP & VP respectively. End A is 12mm above Hp and 10 mm in front of VP. Draw projections. Line is in 1st quadrant.

Problem 2: Line AB is 75 mm long and it is 30° & 40° inclined to HP & VP respectively. End A is 12mm above Hp and 10 mm in front of VP. Draw projections when other End B is in 3rd quadrant.

Problem 3: Line AB 75 mm long makes 45° inclination with VP while it's FV makes 55°. End A is 10 mm above HP and 15 mm in front of VP. If line is in 1st quadrant. Draw it's projections and find it's inclination with HP.

Problem 4: FV of line AB is 50° inclined to xy and measures 55 mm long while it's TV is 60° inclined to xy line. If end A is 10 mm above HP and 15 mm infront of VP. Draw it's projections and find its TL, inclinations of line with HP & VP.