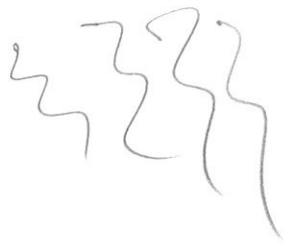


XAVIER INSTITUTE OF ENGINEERING, MAHIM
Engineering Drawing Test

Duration: 1 & 1/2 Hrs.

Max. Marks: 30

1. (a) A point Q is in the 1st Quadrant 10 mm above HP, 15 mm in front of V.P., 20 mm in front of R.S.V.P and 25 mm in front of the L.S.V.P. Draw all the four views of the point. (03M)
(b) The end projectors of a straight line AB are 40mm. The length of its FV is 50mm and T.V. is 60mm. Draw its FV and TV and measure its true length and inclination with HP and V.P., if the point "A" is 15mm above HP and 10 in front of V.P. (07M)
2. A pentagonal lamina of side 40mm is lying on one of its corners on the HP with the lamina making an angle of 50° to the ground. Draw its projections showing its FV and TV., when the base edge opposite to that corner is perpendicular to V.P. (10M)
3. An inelastic string of length 150mm long, has its one end attached to the circumference of a circle of 40mm diameter. Draw the curve traced out by other end of the string, when it is completely wound around the circle, keeping the string always tight. Name the curve and draw tangent and normal to the curve at a point 125mm from centre of a circle. (10M)



TLFV → PL → TV
TLTV → FL → FV

$$\pi d = 40\pi = 125.66$$

E.P