

Duration: 1 Hour

Max. Marks: 15

Q.1 A circle of 50mm diameter rolls along a straight line with out slipping. Draw the curve traced out by a point p on the circumference for one complete revolution of the circle name the curve . draw also tangent and normal . (5)

OR

Q .2 the front view of 85mm long straight line AB measures 60mm while its top view measures 70mm draw the projection of AB if its end A is 10mm above the HP and 20mm behind the VP while end B is in the first quadrant. Determine the inclination of the line of the line AB with the reference planes. (5)

Q.3. draw the front view and top view of the following. (10)

