CLASS XI   **ENGINEERING DRAWING**   **ASSIGNMENT NO. 1**

A.

Q1. Project front & top view of a vertical equilateral triangle ABC of 40 mm sides parallel to VP & base side resting on HP.

Q2. Project top & front view of a horizontal square ABCD of 40 mm sides, with two sides parallel to VP.

Q3. Project top & front view of a horizontal hexagon ABCDEF of 25 mm sides with two opposite sides at right angles to VP.

Q4. Project the front view & top view of a vertical circle of 40 mm dia. parallel to VP.

Q5. Project the front view & top view of a semi - circle of 40 mm dia. parallel to HP perpendicular to VP.

Q6. Project top & front view of a vertical square ABCD of 40 mm sides with its base on HP & inclined to VP at 45^0 towards left.

B.

Q1. Project the top view & front view of a square prism of 35 mm base edges & 50 mm height standing on HP vertically with two of its vertical rectangular faces parallel to VP.

Q2. Project the top view & front view of a hexagonal prism of 25 mm base edges & 50 mm height, having two of its vertical rectangular faces parallel to VP & its base on HP.

Q3. Project the top view & front view of a cylinder of 50 mm dia & 50 mm height, standing vertically on HP.

Q4. Project the front view & top view of a sphere of 50 mm diameter resting on HP.

Q5. Project the top view & front view of a triangular pyramid of 45 mm base edges & 50 mm height standing on HP with one of its base edges on the rear parallel to VP.

Q6. Project the top view & front view of a cone 50 mm base diameter & 50 mm vertical axis with its base on HP.

Q7. Project front view & top view of a hexagonal prism of 25 mm and edges & 60 mm long resting on the HP on one of its rectangular faces with its long edges at right angles to VP.

Q8. Project the front view & top view of a hollow cylinder having outer dia 50 mm, inner dia 40 mm & length 50 mm resting on the HP with its axis normal to VP.

Q9. Project the FV & TV of a horizontal cylinder of 50 mm dia & 50 mm long axis normal to VP.

Q10. A triangular pyramid of 50 mm base edges & 50 mm axis is resting on its base corner on the HP, so that the upper edge of the base is horizontal. The base is on the rear & parallel to VP. Project front view & top view.

Q11. A cone of 50 mm base diameter & 55 mm axis in resting on HP with its base vertical & parallel to VP. Project the front view & top view.

Q12. Project the front view & top view of a square prism of 40 mm end edges & 50 mm length, having its square ends vertical & parallel to VP & two of its rectangular faces inclined to HP at 30^0 towards left.

C.

Q1. Project the top view & front view of a horizontal triangular prism of 35 mm end edges & 60 mm length resting on the one of its rectangular faces on the Hp with its ends at right-angles to VP.

Q2. Project the front view & top view of a horizontal square prism of 30 mm end eges & 70 mm length resting on one of its long edges on HP parallel to Vp with the rectangular faces inclined at 45^0 to HP.

Q3. Project the front view & top view of a triangular pyramid of 50 mm base edges & 70 mm leng with its axis parallel to VP & HP resting on one of its base edges on HP.

Q4. Project the front view & top view of a horizontal cylinder of 40 mm diameter & 70 mm long axis resting on the HP with its axis parallel to VP.

Q5. Project the top view & front view of a cone of 40 mm base diameter & 70 mm long axis, resting on HP with the axis horizontal & parallel to VP.