ASSIGNMENT – IV CLASS – XI ENGINEERING DRAWING

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1. Project the sectional front view & top view of a vertical triangular prism of 50 mm base edges & 60 mm height resting on HP with a vertical rectangular face on the rear, parallel to VP, sectional vertically parallel to VP.
2. A cylinder of 50 mm diameter & 60 mm height resting on HP is cut by a vertical plane parallel to VP. Project its top view sectional front view.
3. Project the sectional front view & top view of a cone of 50 mm base diameter & 60 mm axis, resting vertically on HP, sectioned by a vertical plane parallel to VP.
4. A vertical pentagonal prism of 30 mm base edges & 50 mm height, resting on HP with one edge of its base on the back side parallel to VP, is sectioned by an oblique plane, inclined to HP at 60^0 towards the right. Project its front view & sectional top view.
5. A cylinder of 50 mm base diameter & 60 mm axis rests vertically on HP. It is sectioned by an oblique plane inclined at 45^0 to HP. Project its front view & sectional top view.
6. A cone of 60 mm base diameter & 65 mm vertical axis resting on HP is sectioned by an oblique plane inclined to HP & parallel to its generator on the right. Project its front view & sectional top view.
7. A cylinder of 50 mm diameter & 60 mm long horizontal axis is resting on HP with its circular ends parallel to VP. It is cut horizontally above its centre. Project its FV & sectional TV.
8. A square prism of 45 mm long edges & 60 mm length is resting on one of its rectangular faces on HP with its square ends parallel to VP. It is sectioned by a plane parallel to VP. Project its TV & sectional front view.
9. A cylinder of 50 mm base diam & 60 mm horizontal axis is resting on HP with its circular ends parallel to VP. Projects its TV & sectional front view exposed by a vertical section parallel to VP.
10. A sphere of 50 mm diam resting on HP is sectioned by an oblique plane inclined to the HP towards the right. Project the FV & sectional TV.
11. A cylinder of 50 mm base diam & 60 mm long is resting on HP, with its circular ends at right angles to VP. It is sectioned by a horizontal plane above its axis. Project its FV & sectional TV.
12. A cone of 50 mm base diam & 60 mm horizontal axis, resting on HP with its axis parallel to VP. It is cut by an oblique plane parallel to its generator. Project its FV & sectional TV.