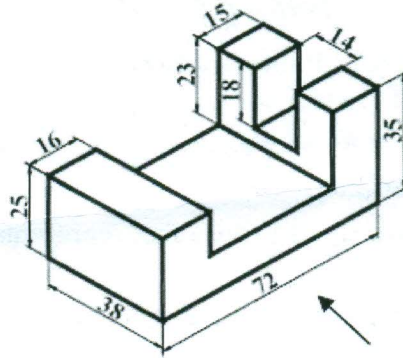


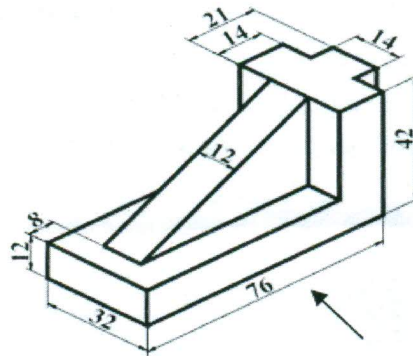
is standing on the H.P. with two sides parallel to the V.P.

- b) Construct the isometric projection (use isometric scale) of the frustum of a regular square pyramid, kept in the inverted position, with base edge 30mm, top edge 50mm and height 80mm, resting on the H.P., with its axis vertical. Two of the opposite parallel edges of the square face are perpendicular to the V.P. [4]

15. a) Draw the front view, top view and left side view for the following figure shown below. [3]



- b) For the figure shown below develop the three views. [4]



16. a) A cylinder, with a 60 mm base diameter and height 70mm axis, is resting on its base in the H.P. It is cut by an auxiliary inclined plane which makes an angle of 60° with the H.P. and passes through the top end of the axis. Draw its sectional top view and true shape of the section. [4]

- b) Draw the development of a cone which is cut parallel to the base at a distance of 15mm from apex, if the base diameter is 40mm and height 65mm. [3]

17. Answer any **two** of the following: [7]

- a) A vertical cone of base diameter 75mm and axis 100mm long is completely penetrated by a cylinder of 45mm diameter. The axis of the cylinder is parallel to the HP and the VP and intersects the axis of the cone at a point 28mm above the base. Draw the projections of the solids showing curves of intersection.

- b) Construct the isometric view of a circle of diameter 40mm using Four-center method.

- c) Draw 4 possible top views for the given front view shown below.



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