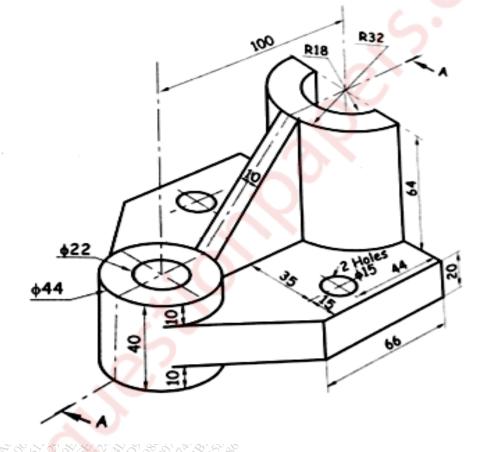
(3 Hours) [Max Marks: 60]

- i) Solve any **FOUR** questions.
- ii) All dimensions are in mm.
- Use first angle method of projection. iii)
- Assume suitable dimension if it is necessary. iv)
- Retain all construction lines. v)
- Q.1 Following figure shows the pictorial view of an object, draw
 - Sectional front view along section A-A
 - [5] [4]

[4]

[2]

- ii) Top view. Left Hand Side view iii)
- Insert 10 major dimensions. iv)

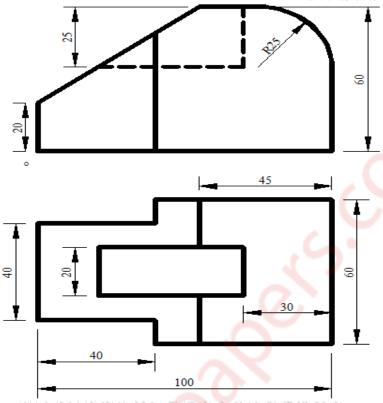


A right circular cone of base 60mm diameter and axis 75mm long is lying on VP on one of Q.2 [15] its end generator. Draw projections of the cone when FV of the axis inclined 45° with HP and base nearer to observer.

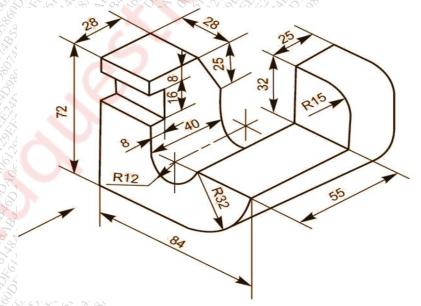
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[9]

Q.3 (a) Front view and top view of an object is shown in figure, draw an Isometric View.



- A square prism edge of base 35mm and axis 70mm has one of its base edges in the HP (b) **[6]** with its axis inclined at 40 degrees to the HP and Parallel to VP. Draw its projections.
- The pictorial view of a machine part is shown in following figure. Draw Q.4 (a)
 - i) Front view along arrow direction [4] ii) Top view **[4]**
 - iii) Insert at least 6 Dimensions. [1]



(b) Draw a helix of pitch 80mm on a cylinder of 60mm diameter.

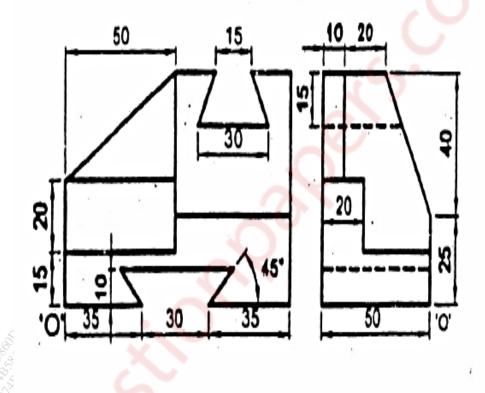
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[6]

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- Q.5 A hexagonal pyramid of 30mm edge of base, 60mm axis length rests on its base on HP with an edge of base perpendicular to VP. It is cut by a section plane normal to VP and 60° inclined to HP bisects the axis of the pyramid. Draw sectional FV, sectional TV, [15] True shape of section and Development of Lateral surface of the pyramid after removing apex.
- Q6 (a) The TV of 75mm long line AB measures 60mm. Pont A is 15mm below HP and 50mm in front of VP. Point B is 15mm in front of VP and above HP. Draw projections of line and determine its inclination with HP and VP.
 - (b) Front view and side view of an object are shown in figure, draw an isometric view.

[7]



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