**I PROJECTION OF SOLIDS PROBLEMS**

1. **Axis inclined to HP and parallel to VP**

Problem:

A Hexagonal Prism having a base with a 30 mm side and 75 mm long axis, has an edge its base on the HP. Its axis is Parallel to the VP and inclined at 450 to the HP Draw its projections?

Solution:

2. **Axis inclined to VP and parallel to HP**

Problem:

An Hexagonal Prism, having a base with a 30 mm side and 65 mm long axis, has an edge it's base in the VP Such that the axis is inclined at 300 to the VP and Parallel to the HP. Draw its Projections?
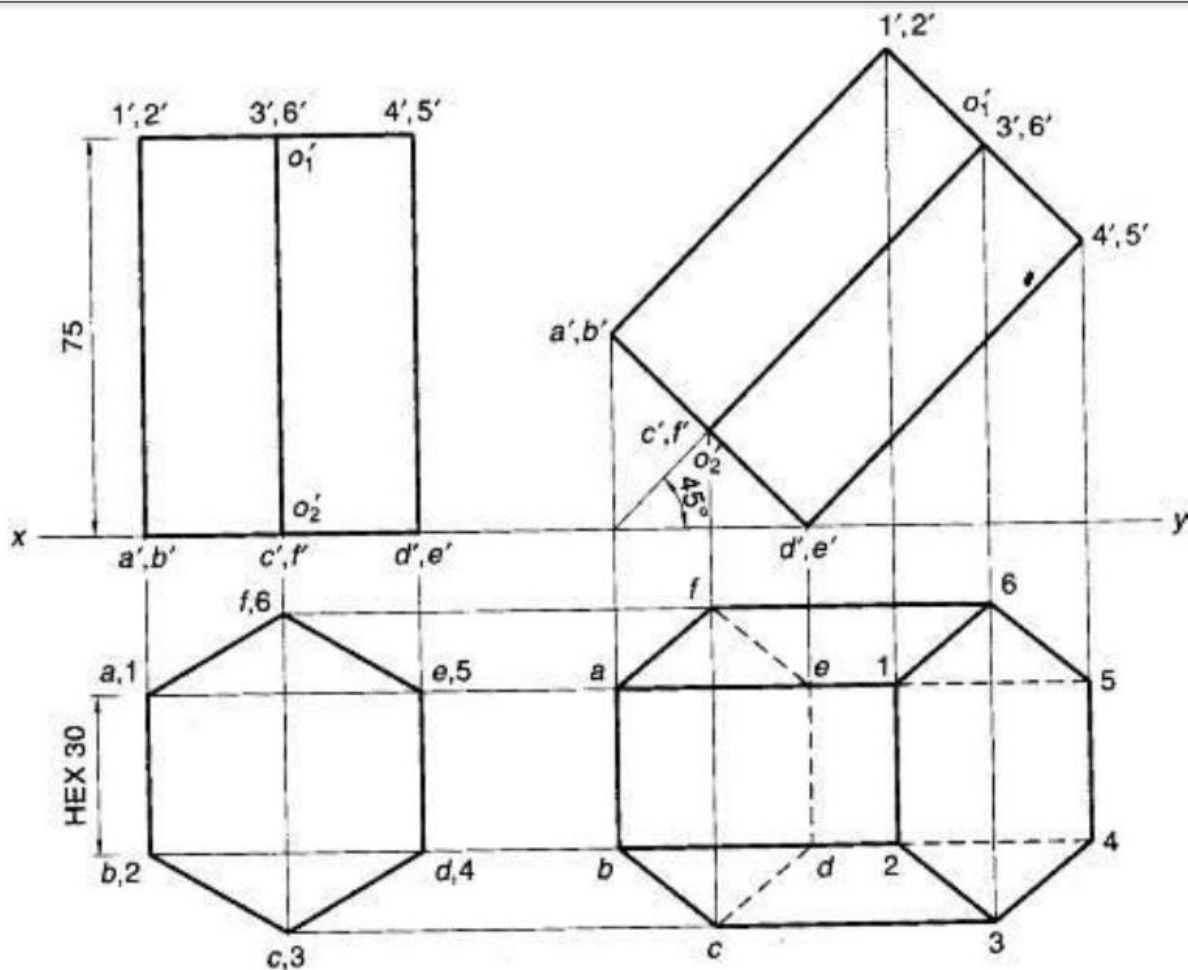
Solution:

Problem 3:

A cone 40 mm diameter and 50 mm axis is resting on one of its generator on HP which makes 300 inclinations with VP. Draw it's projections?

Solution Steps:

Resting on HP on one generator, means lying on HP

1. Assume it standing on HP.

2. It's TV will show True Shape of base(circle)

3. Draw 40mm dia. Circle as TV& taking 50 mm axis project FV. (a triangle)

4. Name all points as shown in illustration.

5. Draw 2nd FV in lying position I.e. o'e' on xy. And project it's TV below xy.

6. Make visible lines dark and hidden dotted, as per the procedure.

7. Then construct remaining inclination with VP (generator o1e1 300 to xy as shown) & project final FV.

Solution: