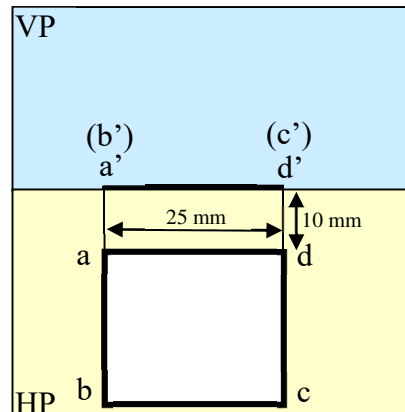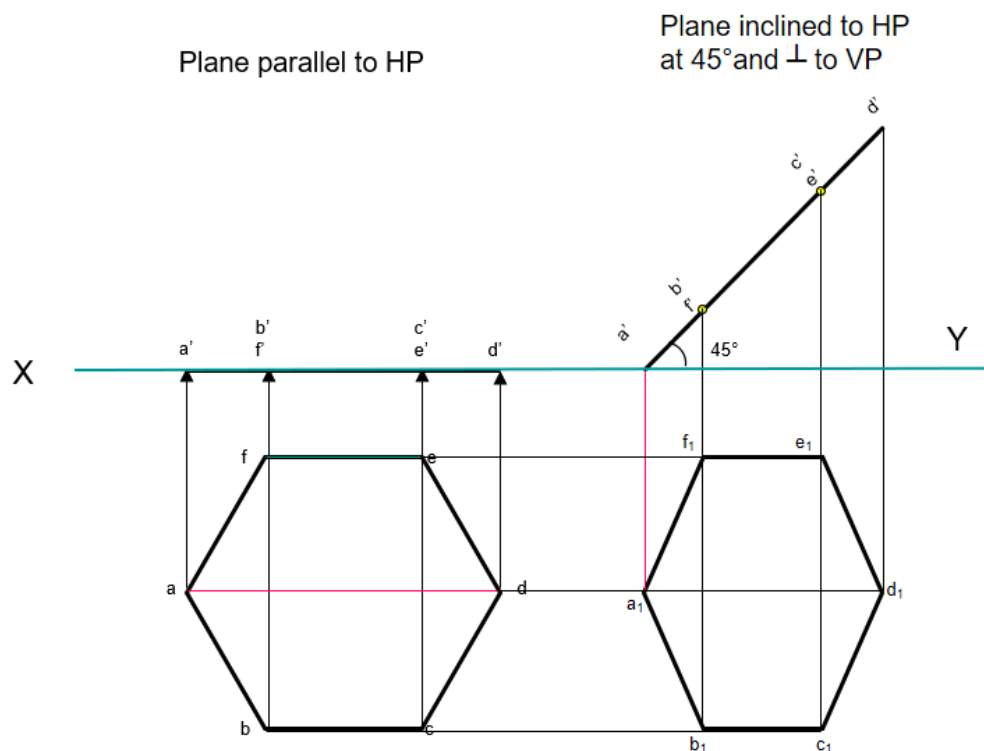1. A square lamina ABCD of side 25 mm is in the horizontal plane. The two closest vertices of the lamina to the vertical plane is at a distance of 10 mm from it. Draw its projections. [10 marks]

2. A regular hexagon of 40 mm side has a corner in the HP. Its two sides are parallel to VP and its surface inclined at 45° to the HP (rotated about the axis passing through the corner in the HP). [15 marks]

3. A regular pentagon ABCDE of side 30 mm has one of its edges parallel to the VP and inclined at 30° to the HP. The pentagon is inclined at 45° to the VP. Draw the projections of the pentagon. [25 marks]

FV

a'   e'   e1'

30   d'   a1'

b'   b1'   d1'
    c'   c1'

X   Y
            45   30

TV   a1
                      b1
                      c1
                      e1

a   c   d   d1
b   e

e2'   d2'
a2'   c2'
       b2'

a2   b2
e2   c2
       d2

d1   d2