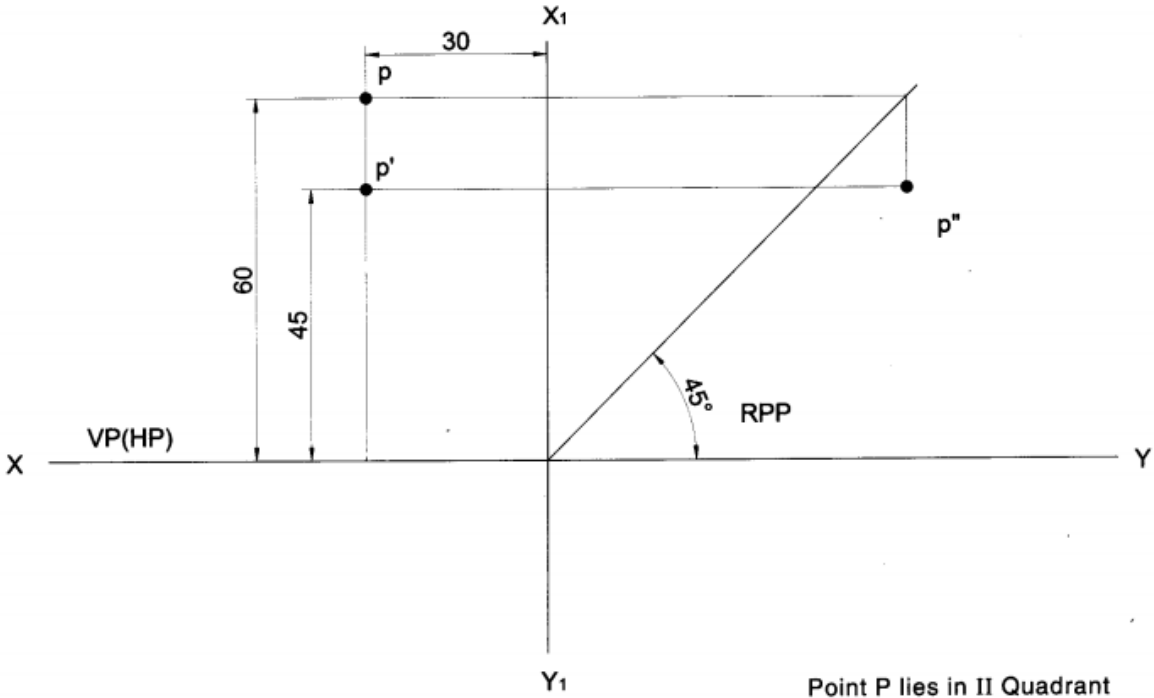


PES SCHOOL OF ENGINEERING
Hosur Road, (1K.M. Before Electronic City), Bangalore – 560 100
DEPARTMENT OF SCIENCE AND HUMANITIES

SCHEME AND SOLUTION - I INTERNAL ASSESSMENT

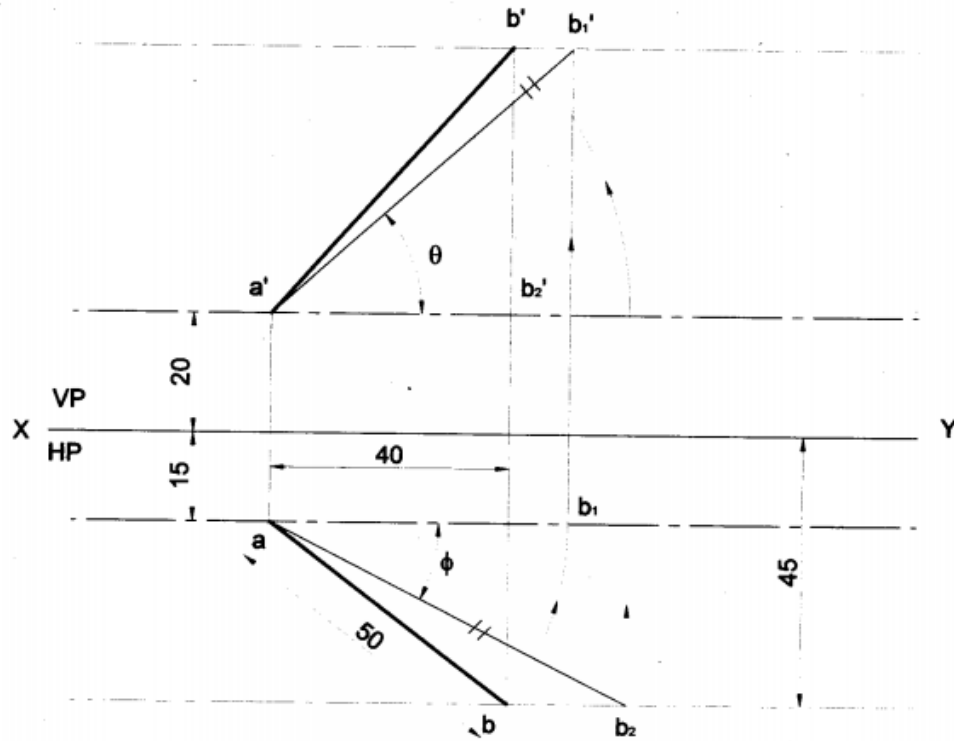
Subject : COMPUTER AIDED ENGINEERING DRAWING
Sub. Code : 17CED24
Name of the Faculty : VENKATA REDDY

Semester: II
Section : I

| Q.No | | Marks |
|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| 1. a) | <p>The point P is 45 mm above HP, 60 mm behind VP and 30 mm from RPP. Draw the three principles view of the points. Also state the quadrant in which it lies.</p>  <p style="text-align: right;">Point P lies in II Quadrant</p> | 10 |

b) The distance between the end projectors through the end points of a line AB is 40 mm. The end A is 20 mm above HP and 15 mm in front of VP. The end B is 45 mm in front of VP & above HP. The line AB appears 50 mm long in top view. Complete the projections. Find the true length of the line and its inclinations with HP & VP

20

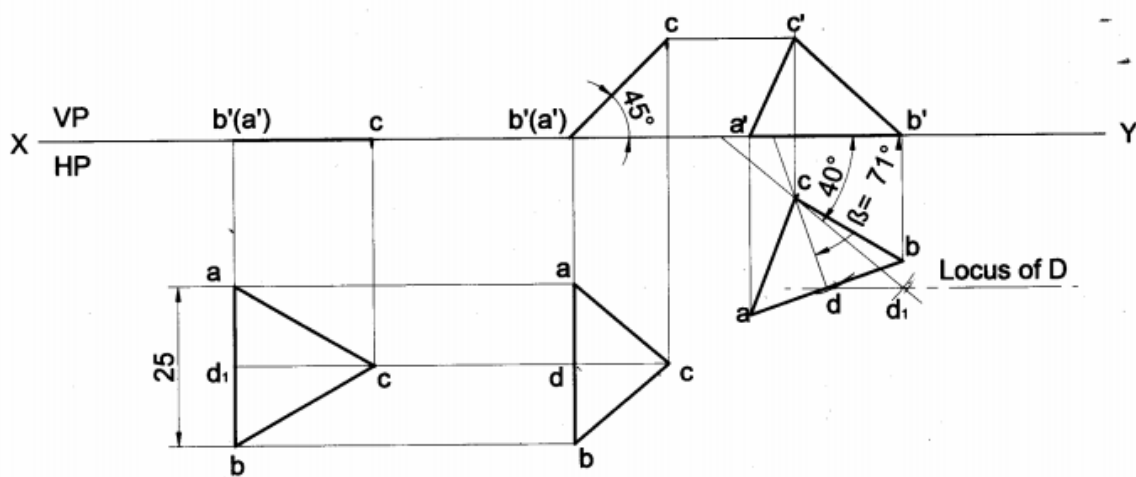


ANSWERS :
 $\theta = 42^\circ$
 $\phi = 27^\circ$
 TL = 67

30(12
 +18)

2.

An equilateral triangular lamina of 25 mm side lies on one of its sides on HP. The lamina makes an angle of 45° with HP & one of its medians inclined at 40° to VP. Draw its projections.



30(12
+18)

3.

A triangular plane lamina of sides 25 mm is resting on HP with one of its corner touching it, such that the side opposite to the corner on which it rests is 15 mm above HP & makes an angle of 30° with VP. Draw the top & Front views in this position. Also determine the inclination of the lamina to the reference line.

