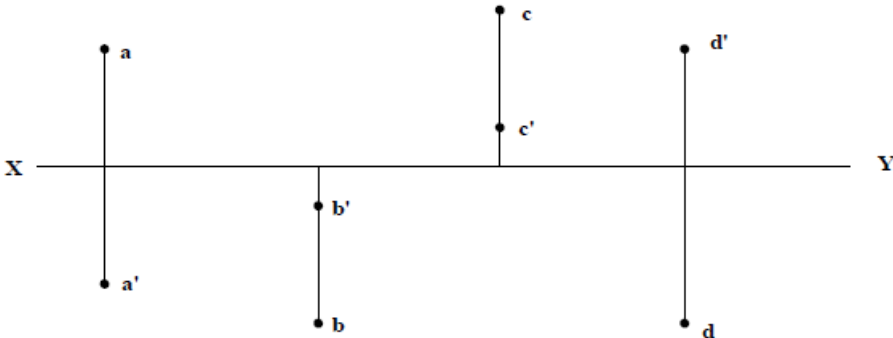
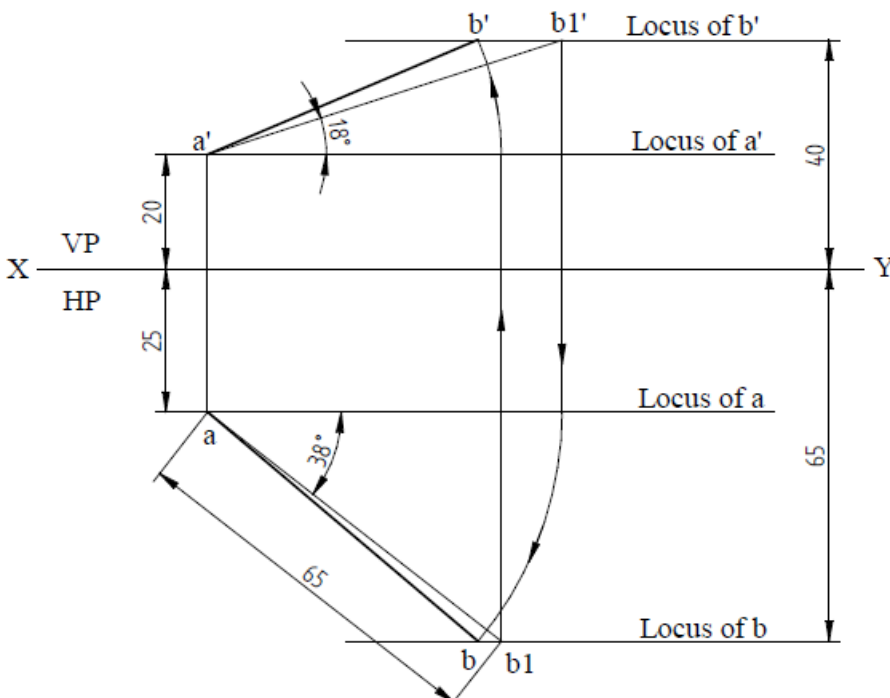
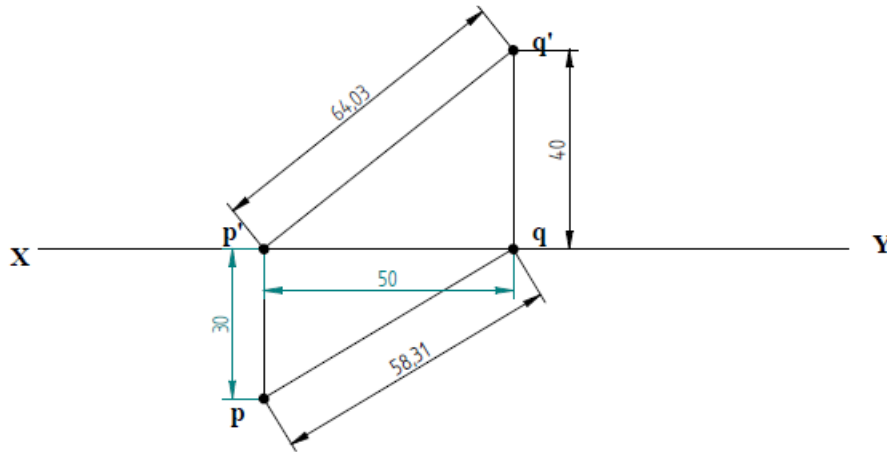


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Internal Assessment Test I

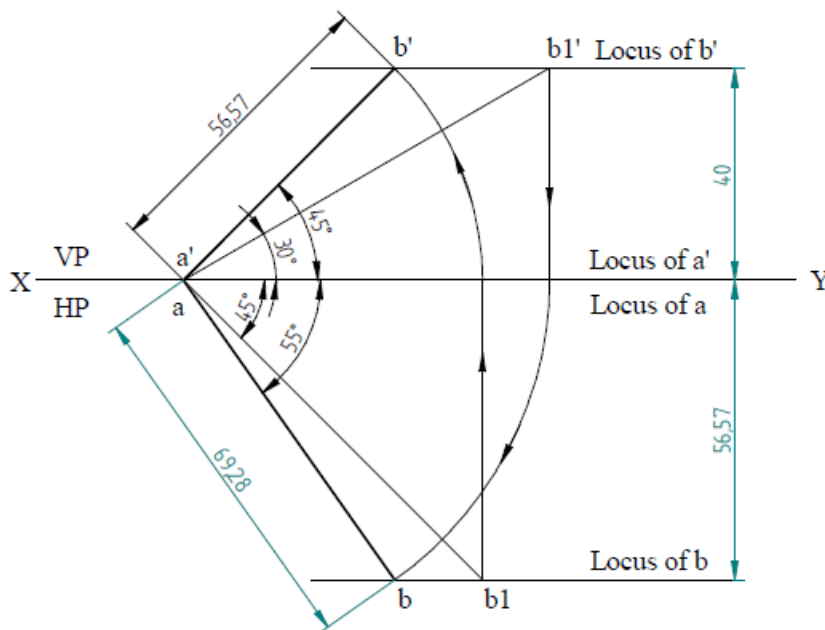
Sub:	Engineering Graphics	Sub Code:	18EGDL15	Branch:	Physics Cycle		
Date:	25/01/2021	Duration:	90 min's	Max Marks:	50		
		Sem / Sec:	1 st / A TO G		OBE		
<u>Answer any Two Questions</u>					MARKS	CO	RBT
<p>a. Draw and state the quadrants in which the following points are located. Assume any distances</p> <p>A. Front view below XY line & top view above XY line.</p> <p>B. Front and Top views are below XY line</p> <p>C. Front & top views are above XY line.</p> <p>D. Front view above XY line & top view below XY line.</p> <div style="text-align: center;">  </div> <p>Solution: A III Quadrant C II Quadrant B IV Quadrant D I Quadrant</p>							
<p>b. A line AB, 65mm long, has its end A 20mm above the HP and 25mm in front of VP. The end B is 40mm above the HP and 65mm in front of the VP. Draw the projections of AB and show its inclinations with the HP and the VP.</p>	1				15	CO1, CO3	L3
							
		$\theta = 18^\circ$ $\phi = 38^\circ$					

a. A point P is on HP and 30mm in front of VP. Another point Q is on VP and 40mm above HP. The distance between their projectors parallel to XY line is 50mm. Find the distance between their front and top views of the points P and Q.



The distance between top views of P & Q is 58.31mm
 The distance between front views of P & Q is 64.03mm

b. A line AB 80mm long is inclined to HP at 30° and inclined to VP at 45° . The end A touches both HP & VP. Draw front and top views of line and determine their lengths. Also measure the perpendicular distance of end B from both HP and VP.



$$a'b' = 56.57$$

$$ab = 69.28$$

Distance of B from HP = 40

Distance of B from VP = 56.57

c.

a. A point is 40mm behind VP, 15mm above HP and 25mm in front /behind/from LPP. Draw its projections and name the side view.

2

10

15

CO1,
CO3

L3

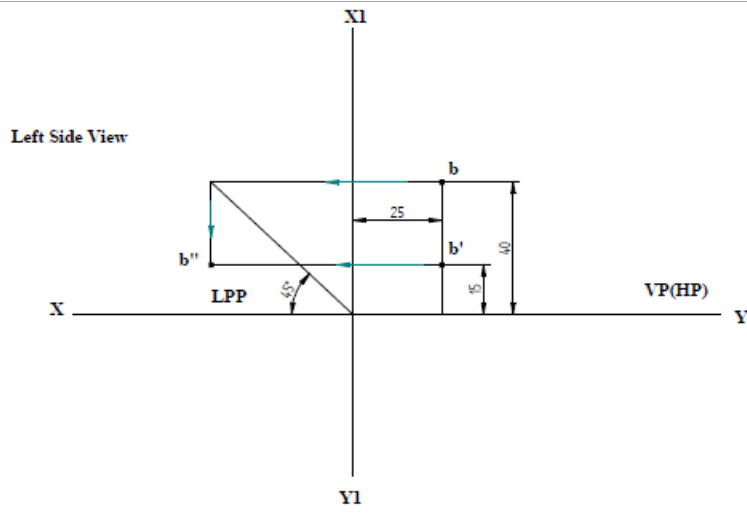
3

10

15

CO1,
CO3

L3



- b. A line PQ measures 80mm in length. The point P is above HP and in front of VP by 20mm and 30mm respectively. The distance between the end projectors is 50mm. The line is inclined to VP by 30° . Draw the projections of the line and find its true inclination with HP.

