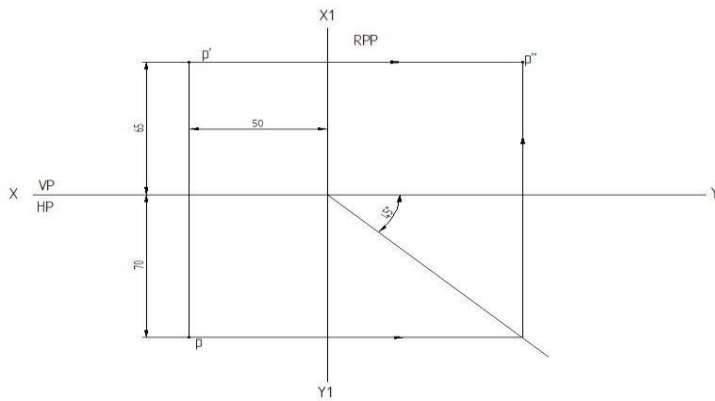


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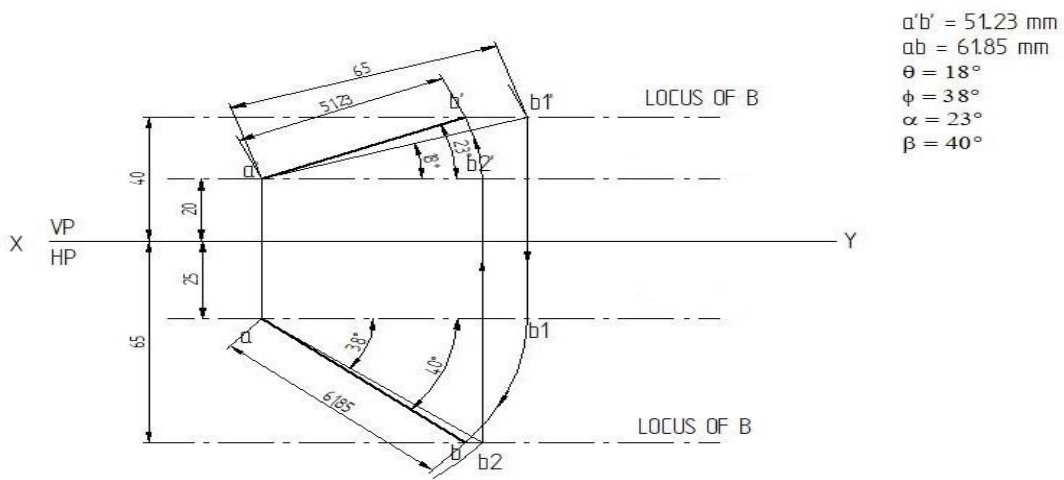
Internal Assessment Test – I

Sub: Engineering Visualization					Code: 21EV15			
Date: 11/07/2022	Duration: 90 mins	Max Marks: 50	Sem: II	Branch (sections): I, J, K, L, M, N & O				
Answer any one from question no. 1 and 2 and question no. 3 is compulsory								
PART A						Marks	OBE	
							CO	RBT
1	a.	Draw the three principal views of a point P lying 65 mm above HP, 70 mm in front of VP and 50 mm in front of the right plane.				[10]		
	b.	A line AB, 65 mm long, has its end A 20 mm above HP and 25 mm in front of VP. The end B is 40 mm above HP and 65 mm in front of VP. Draw the projections of AB and show its inclinations with HP and VP.				[15]	CO1	L2
2	a.	Draw the projections of the following points on the same XY line and state in which quadrants they lie in.				[10]		
		i. A is 20 mm in front of VP and 30 mm above HP. ii. B is 30 mm in front of VP and in HP. iii. C is 40 mm behind VP and 20 mm below HP. iv. D is 30 mm behind VP and 10 mm above HP v. E is 40 mm in front of VP and 30 mm below HP.					CO1	L2
	b.	A room is 5 m x 3 m x 4 m high. An electric lamp is suspended vertically from the center of the ceiling at a distance of 0.8 m from it. Find the distance of the lamp from any one of the ground corners and the slope angle of the connecting line with the ground.				[15]		
3.		A pentagonal lamina of sides 30 mm is having a side both on HP and VP. The surface of the lamina is inclined at an angle of 60° to HP. Draw top and front views of the lamina.				[25]	CO2	L2
		OR						
		A regular hexagonal lamina of sides 30 mm rests on HP such that the diagonal line passing through the resting corner appears to be inclined at 45° to VP and the surface makes an angle of 30° to HP. Draw its projections.						

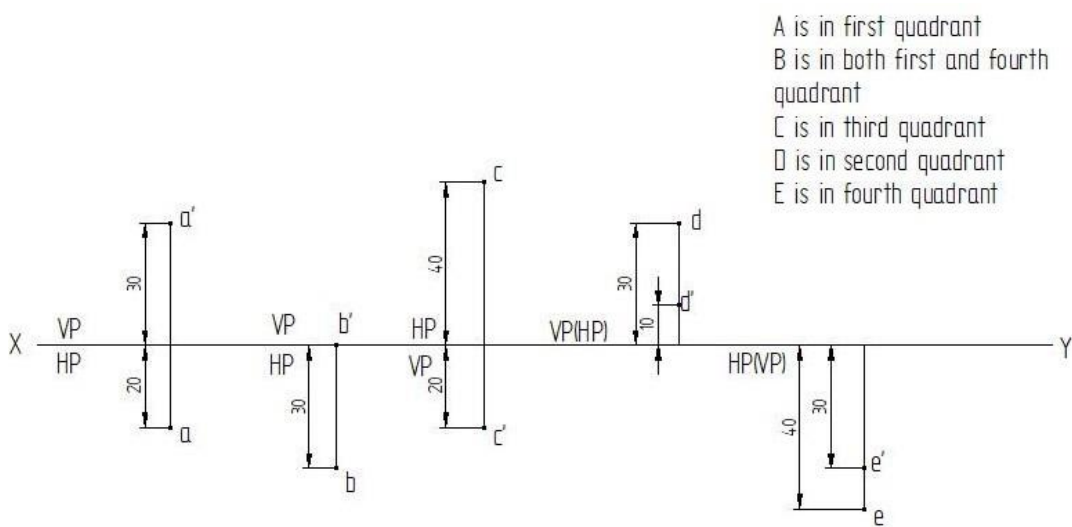
1. A



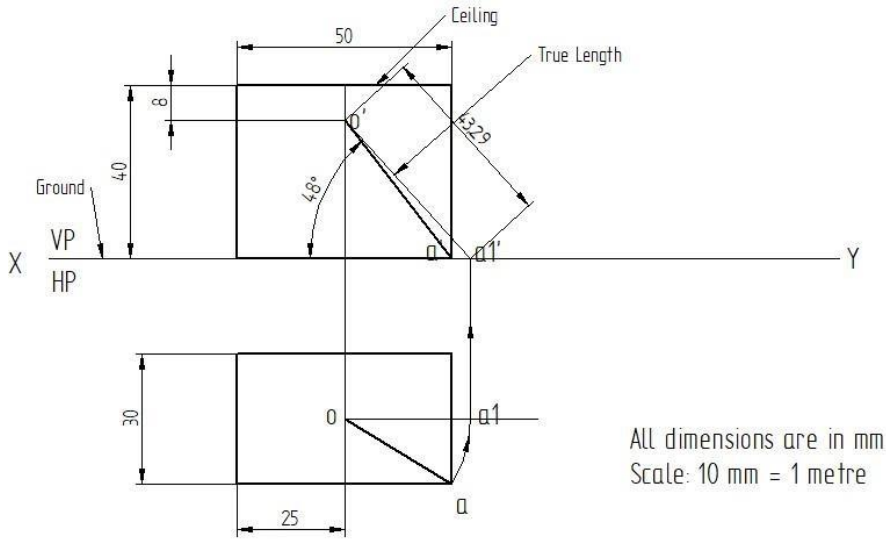
B



2. A



**B**



The lamp is 4.329 metres away from the ground corner as shown in the drawing.  
The slope angle of the connecting line with ground is 48°

**3.**

