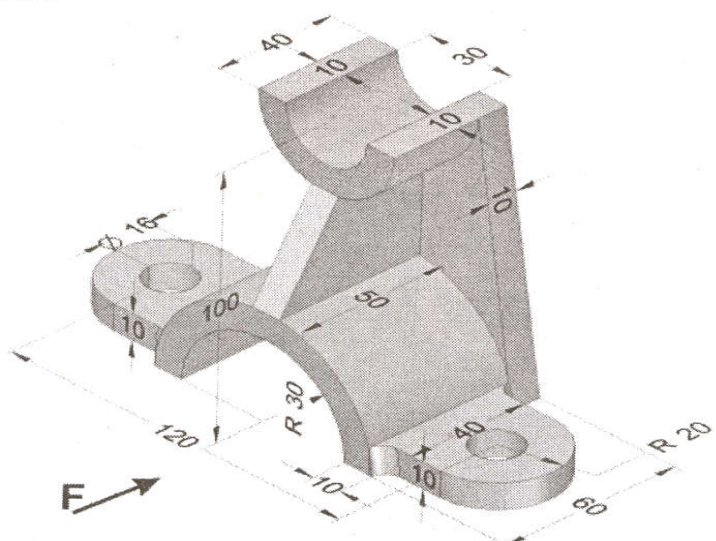


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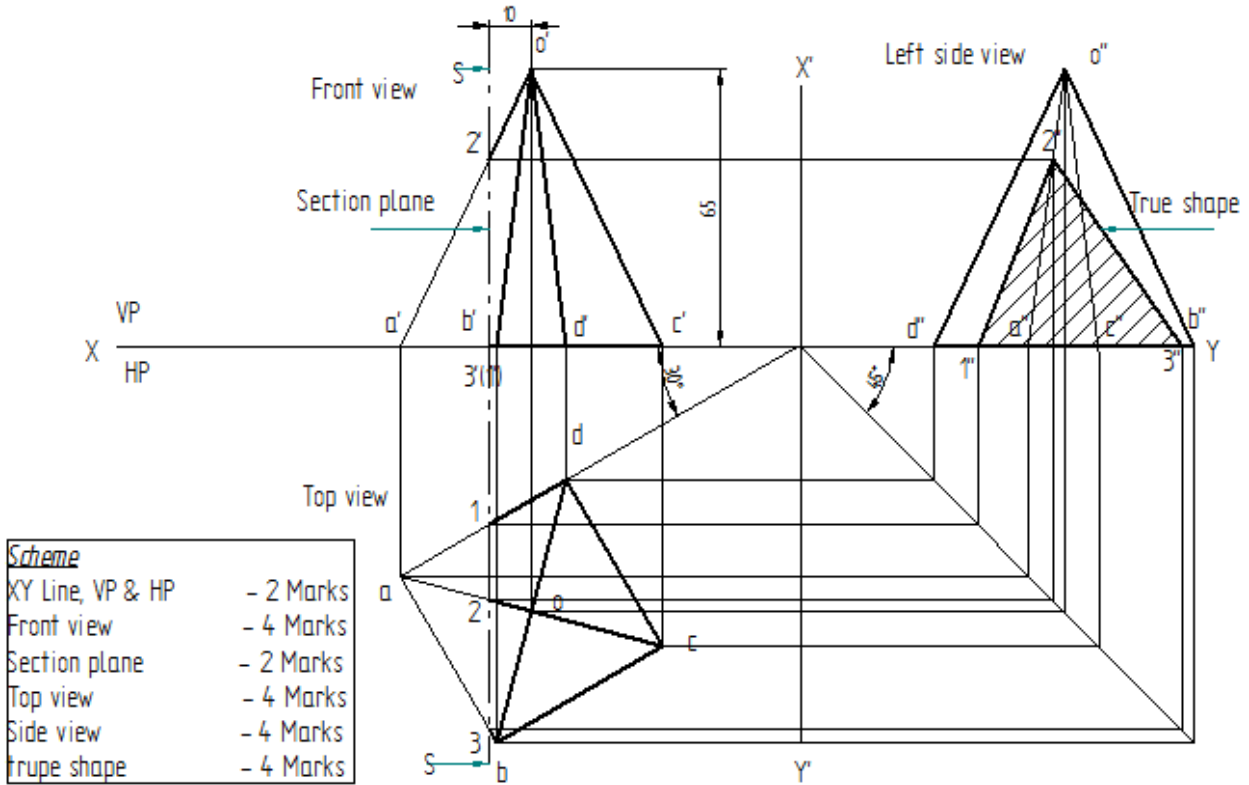
**Internal Assessment Test 1 – Sept. 2017**

Sub:	Computer Aided Machine Drawing	Sub Code:	15ME36A	Branch:	MECH.				
Date:	21/09/2017	Duration:	90 min's	Max Marks:	50	Sem / Sec:	3 (A&B)		
							OBE		
							MARKS		
							CO		
							RBT		
<p>1 (a) A square pyramid of base side 35mm and axis length 65mm is resting on the HP on its base with a side of base inclined at 30° to the VP. It is cut by a plane perpendicular to both HP and VP and is 10mm away from the axis. Draw its top view, front view and true shape of a section.</p> <p align="center">Or</p> <p>(b) A pentagonal pyramid side of base 40mm and altitude 70mm rests with its base on the HP and with a side parallel to the VP and 25mm in front of it. It is cut by a section plane horizontal and bisecting the axis. Draw front view, top view &amp; true shape of a section.</p>							[20]		
<p>2 (a) Draw the following views for the given machine component.</p> <p>(a) Front view</p> <p>(b) Top view and</p> <p>(c) Side view</p> <p align="center">front side view</p>							[20]		
 <p align="center">Fig. P3.28</p>									
<p>3(a) Draw buttress thread profile for a pitch of 50mm. Indicate all dimension &amp; Proportions.</p>							[10]		
							CO3		
							L2		

Sub:	Computer Aided Machine Drawing	Sub Code:	15ME36A	Branch:	MECH.
Date:	21/09/2017	Duration:	90 min's	Max Marks:	50
		Sem / Sec:	3 (A&B)		

**Scheme & Solution**

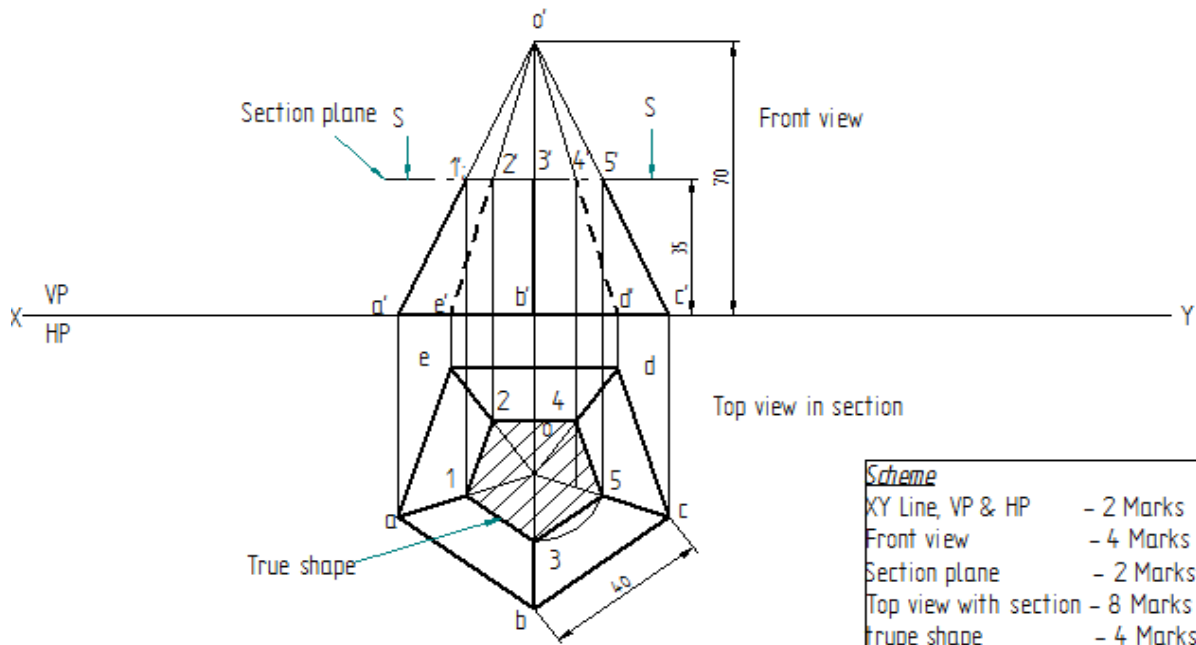
1 (a) A square pyramid of base side 35mm and axis length 65mm is resting on the HP on its base with a side of base inclined at 30° to the VP. It is cut by a plane perpendicular to both HP and VP and is 10mm away from the axis. Draw its top view, front view and true shape of a section. – 20 Marks



<b>Scheme</b>	
XY Line, VP & HP	- 2 Marks
Front view	- 4 Marks
Section plane	- 2 Marks
Top view	- 4 Marks
Side view	- 4 Marks
True shape	- 4 Marks

OR

1 (b) A pentagonal pyramid side of base 40mm and altitude 70mm rests with its base on the HP and with a side parallel to the VP and 25mm in front of it. It is cut by a section plane horizontal and bisecting the axis. Draw front view, top view & true shape of a section. – 20 Marks

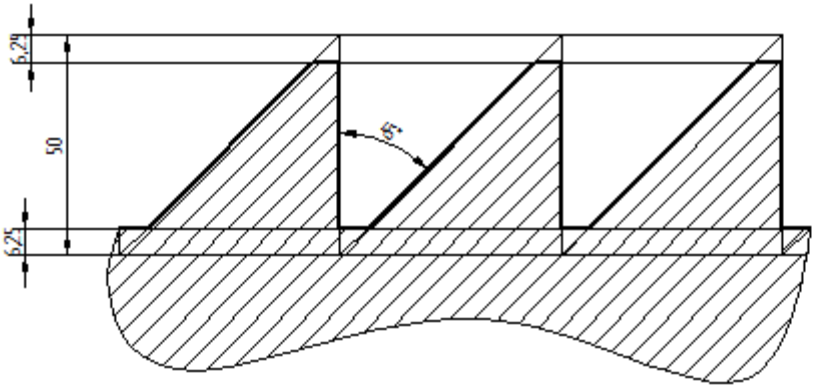


<b>Scheme</b>	
XY Line, VP & HP	- 2 Marks
Front view	- 4 Marks
Section plane	- 2 Marks
Top view with section	- 8 Marks
True shape	- 4 Marks



3. Draw buttress thread profile for a pitch of 50mm. Indicate all dimension & Proportions. – 10 Marks

Solution:  
Given  $P=50\text{mm}$   
To find  
 $H=P=50\text{mm}$   
 $a = d=0.125 P = 6.25\text{mm}$



<i>Scheme</i>	
Calculatons	- 2 Marks
Dimesnions	- 2 Marks
Profile	- 6 Marks