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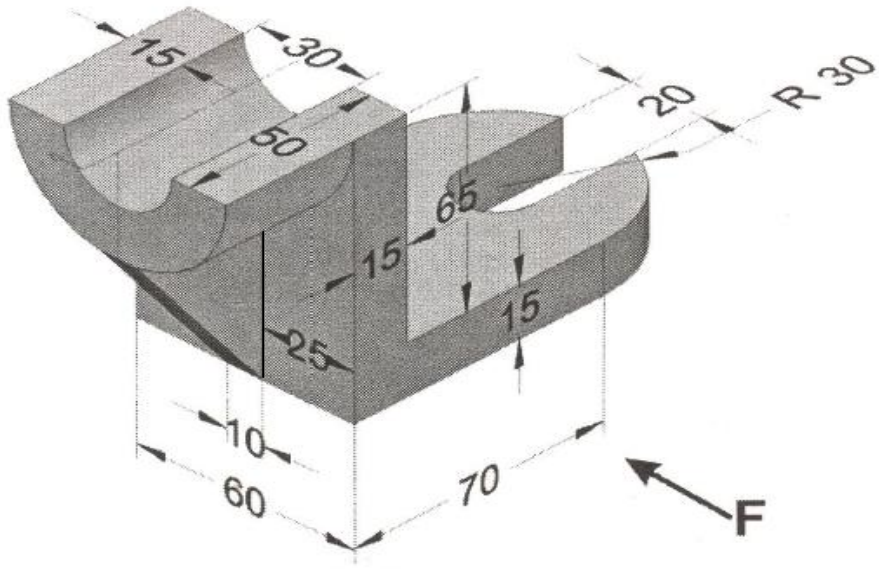
Internal Assessment Test 1 – Sept. 2018

Sub:	COMPUTER AIDED MACHINE DRAWING					Sub Code:	17ME36A	Branch:	ME
Date:	11.09.2018	Duration:	90 min's	Max Marks:	50	Sem / Sec:	3 (A&B)		OBE

Answer two questions (2nd question compulsory)

		MARKS	CO	RBT
1 (a)	A square pyramid of base side 45mm and axis length 70mm rests on its base on the HP in such a way that all of its base edges are equally inclined to VP. It is cut by a section plane perpendicular to VP, inclined at 45° to the HP and bisecting the axis. Draw its sectional top view, sectional side view and true shape of a section.	[25]	CO1	L4
	OR			
(b)	A cylinder of base diameter 50mm and height 70mm is resting with its base on HP. A section plane inclined at 50° to the VP and perpendicular to the HP cuts the solid at 10mm in front of it. Draw its top view, sectional front view and true shape of a section.	[25]	CO1	L4
2 (a)	Draw the following views for the given machine component. (a) Front view (b) Top view and (c) Sectional left side view (by assuming its cutting exactly at centre)	[25]	CO2	L4



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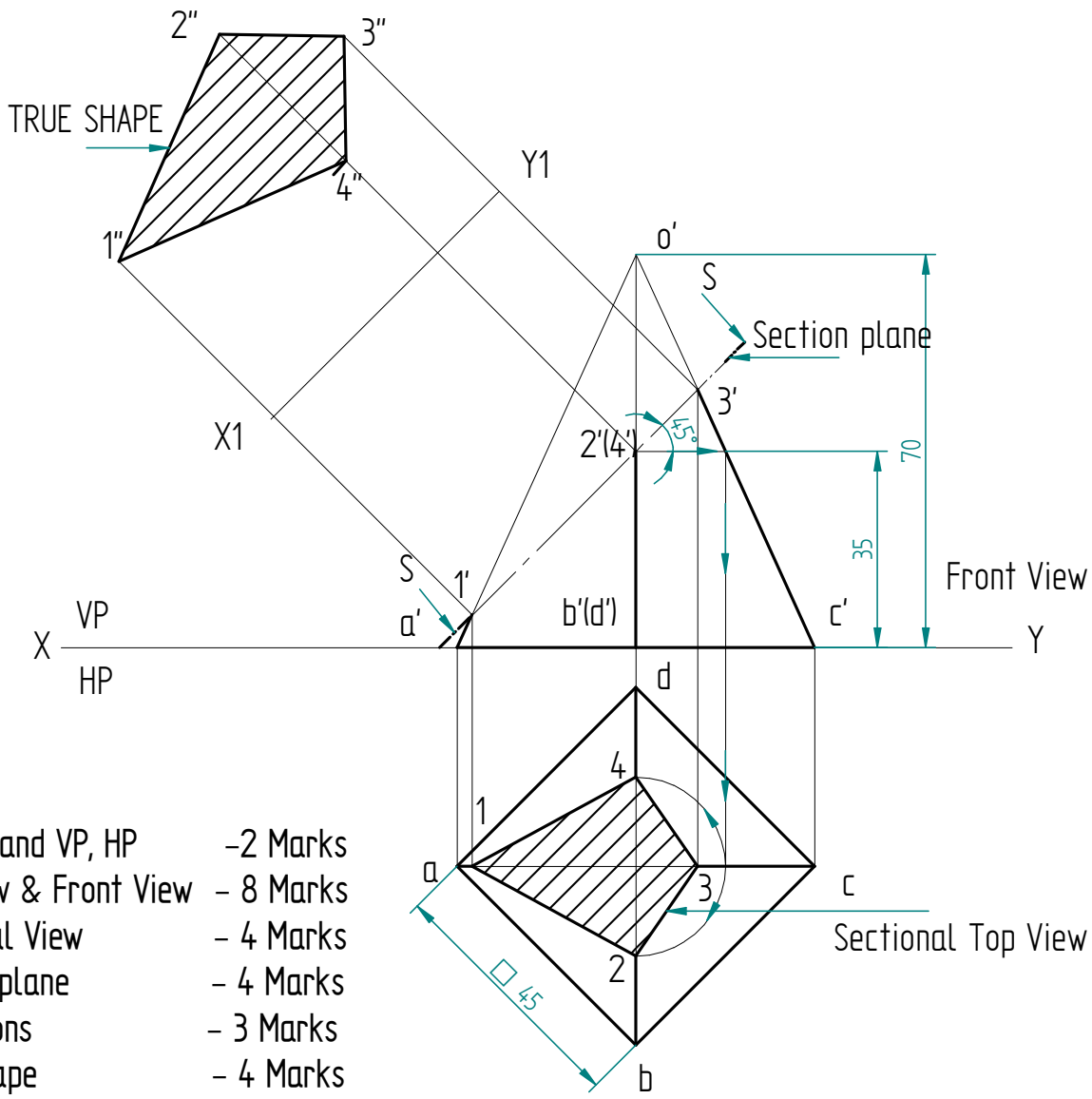
Internal Assessment Test I –Sep. 2018

Sub:	Computer Aided Machine Drawing					Sub Code:	17ME36A	Branch:	MECH.
Date:	11/09/2018	Duration:	90 min's	Max Marks:	50	Sem / Sec:	3 (A&B)		

Scheme & Solution

1.(a) A square pyramid of base side 45mm and axis length 70mm rests on its base on the HP in such a way that all of its base edges are equally inclined to VP. It is cut by a section plane perpendicular to VP, inclined at 45° to the HP and bisecting the axis. Draw its sectional top view, sectional side view and true shape of a section 25 Marks

Solu.



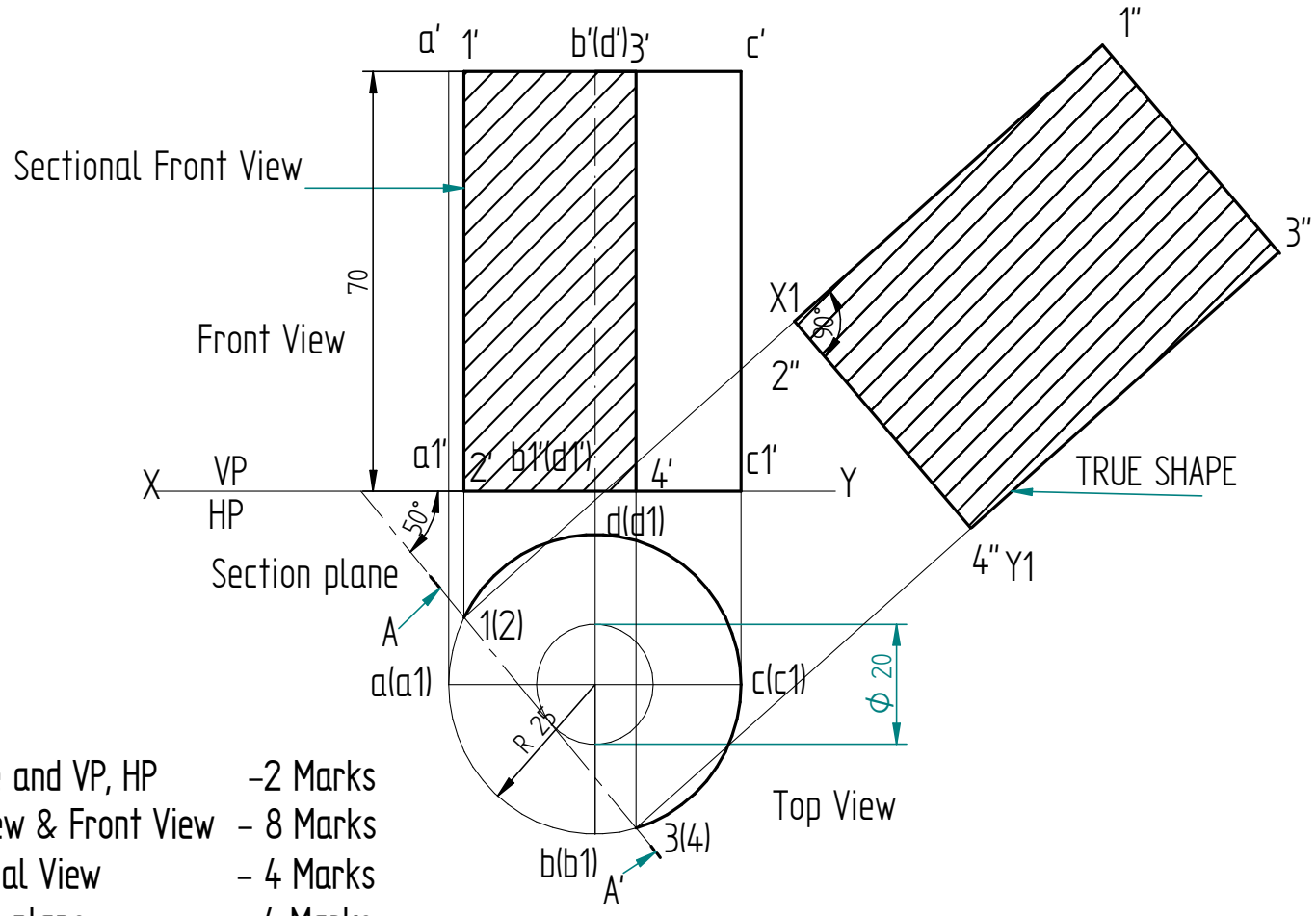
XY Line and VP, HP	–2 Marks
Top View & Front View	– 8 Marks
Sectional View	– 4 Marks
Section plane	– 4 Marks
Dimensions	– 3 Marks
True shape	– 4 Marks

(OR)

(b) A cylinder of base diameter 50mm and height 70mm is resting with its base on HP. A section plane inclined at 50° to the VP and perpendicular to the HP cuts the solid at 10mm in front of it. Draw its top view, sectional front view and true shape of a section.

25 Marks

Solu.



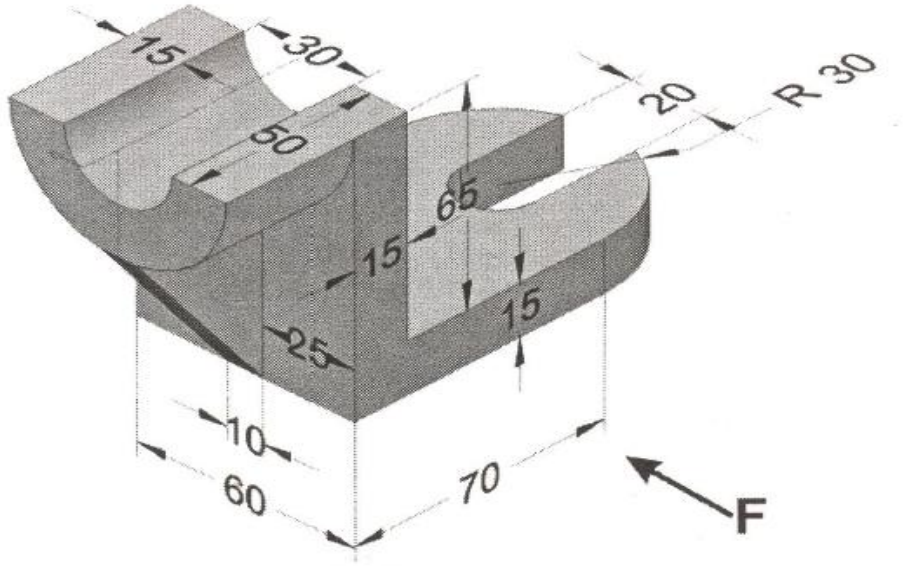
XY Line and VP, HP	–2 Marks
Top View & Front View	– 8 Marks
Sectional View	– 4 Marks
Section plane	– 4 Marks
Dimensions	– 3 Marks
True shape	– 4 Marks

2.(a)Draw the following views for the given machine component.

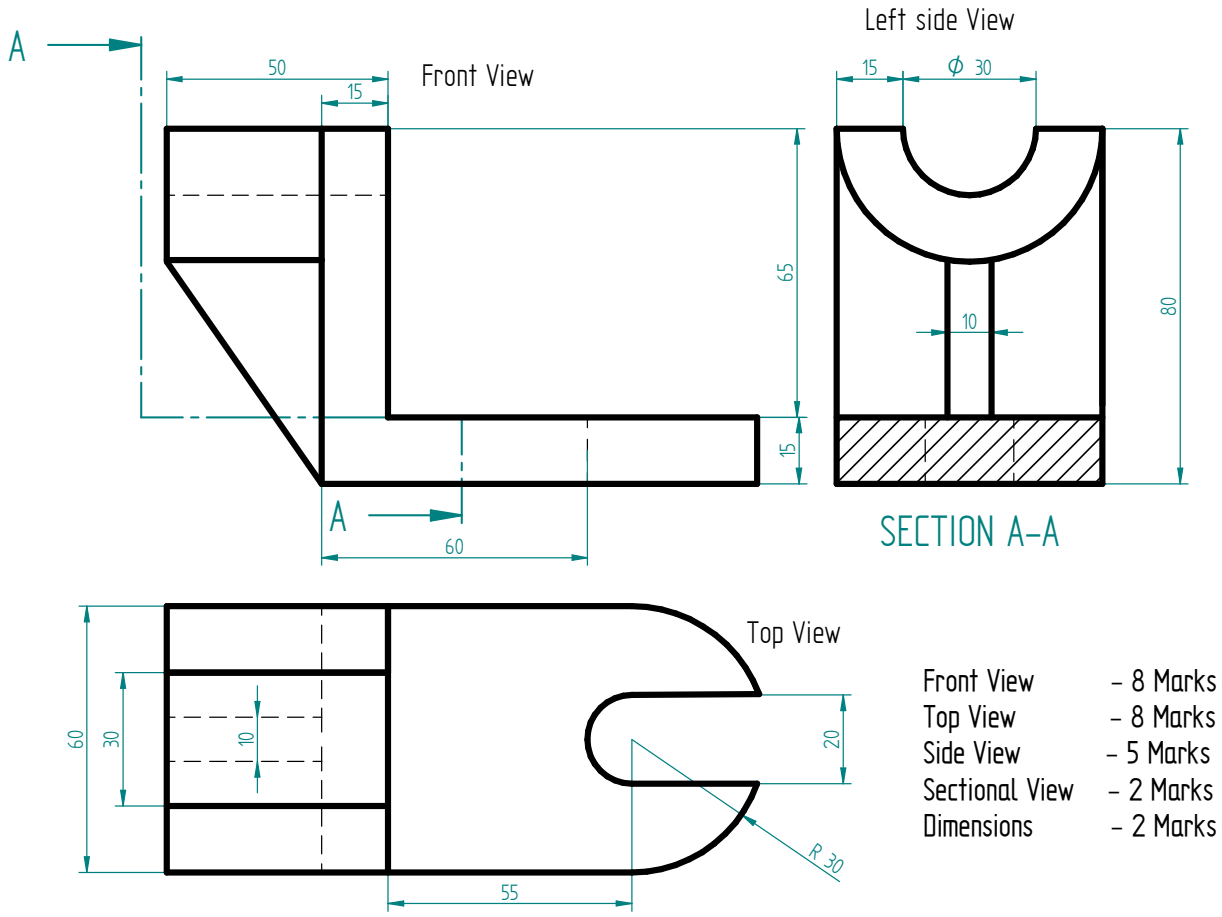
(a) Front view

(b) Top view and

(c) Sectional left side view (by assuming its cutting exactly at centre) 25 Marks



Solu.



Front View	– 8 Marks
Top View	– 8 Marks
Side View	– 5 Marks
Sectional View	– 2 Marks
Dimensions	– 2 Marks