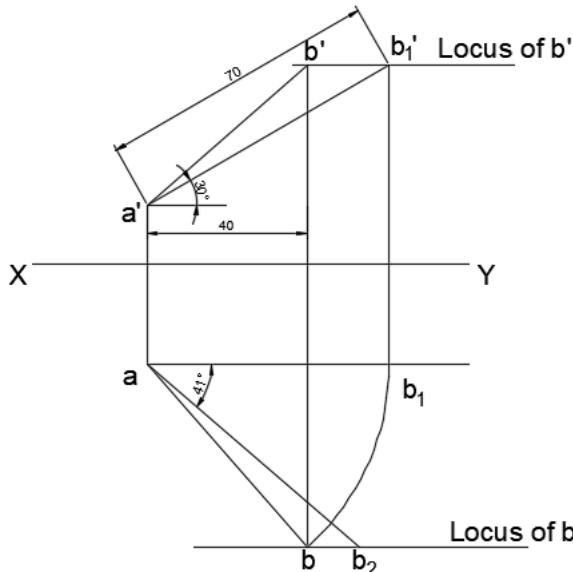
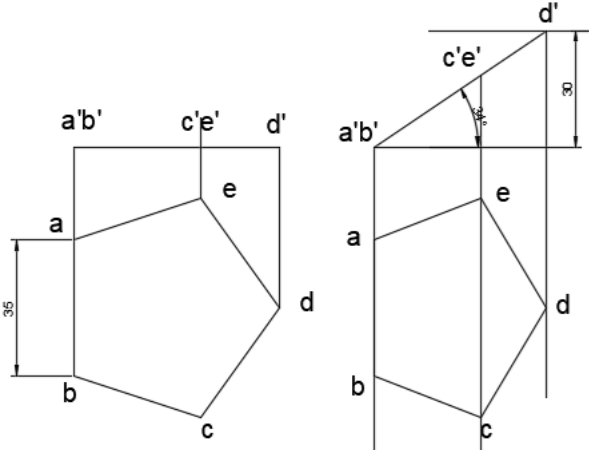
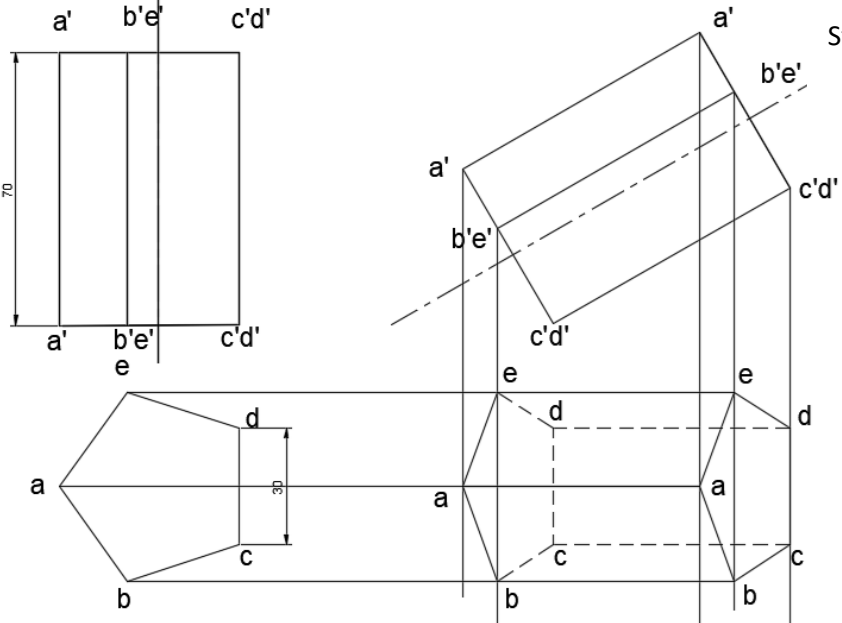
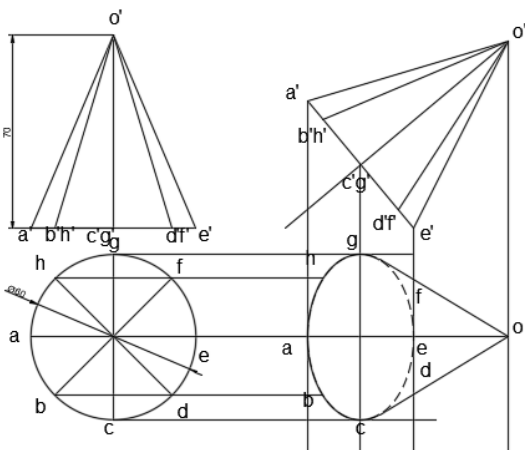


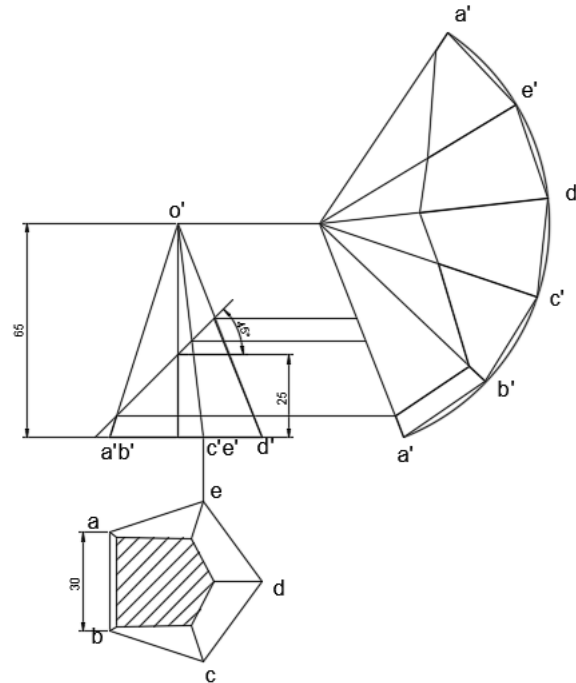


Semester: January 2024 – April 2024		
Maximum Marks: 50	Examination: End-Semester Examination	Duration: 2 Hrs.
Programme code: 01 Programme: BTech	Class: FY	Semester: II (SVU 2023)
Name of the College: K. J. Somaiya College of Engineering	Name of the department: All	
Course Code: 216U06C105	Name of the Course: Engineering Drawing	
Instructions: <ul style="list-style-type: none">• All Questions are Compulsory.• Figures to the right indicate full marks.• Illustrate your answers using figures, sketches, diagrams etc.• <u>Assume suitable dimensions if necessary and state it clearly.</u>• <u>Avoid using colours and layers in your drawings to avoid problems during printing.</u>• Line type, line thickness, text size, text font, content of title block, proper dimensions etc. at appropriate place carries weightage during assessment.• Arrange your drawings properly and on minimum number of pages.• All the students are requested to save the drawings regularly. In case of any hardware or software problems, extra time will not be allotted to any student for unsaved work.• Any kind of electronic gadgets capable of memory storage such as pen drive, mobile etc. are not permitted.		

Que. No.	Question Statement	Max. Marks
Q.1	Attempt any ONE	10
i)	<p>A line AB 70 mm long has its end A 15 mm above HP and 25 mm in front of VP. It is inclined at 30° to HP and the distance between end projectors is 40 mm. Draw its projections when end B lies in first quadrant. Find the inclination of line with VP.</p>  <p>Given 3M Solution 5M Dim 2M</p>	
ii)	<p>A pentagonal plate of 35 mm side has one of its sides in HP. The corner opposite to it is 30 mm above HP. Draw the projections and find the inclination of surface with HP.</p>	

	 <p>Stage 1 4M Stage 2 6M</p>	
Q.2	Attempt any ONE	10
i)	<p>A pentagonal prism of 30 mm base edges and axis 70mm long is resting on HP with one of its rectangular faces perpendicular to HP and VP. Draw its projections if axis is inclined at 30° to HP.</p> <p>Stage 1 4M Stage 2 6M</p> 	
ii)	<p>A cone of 50 mm diameter and axis length 70 mm is resting on its base in HP. Draw the projections of cone if its axis is inclined at 40° to HP</p> <p>Stage 1 4M Stage 2 6M</p> 	
Q.3	Attempt any ONE	10
i)	A pentagonal pyramid of 30 mm edges of base and 65 mm height is resting on	

its base with one of the edges of base perpendicular to the VP. It is cut by an AIP in such a way that it cuts the axis at 25 mm from its base and is inclined at 45° to the HP. Draw FV and sectional TV. Also develop lateral surface of retained pyramid.

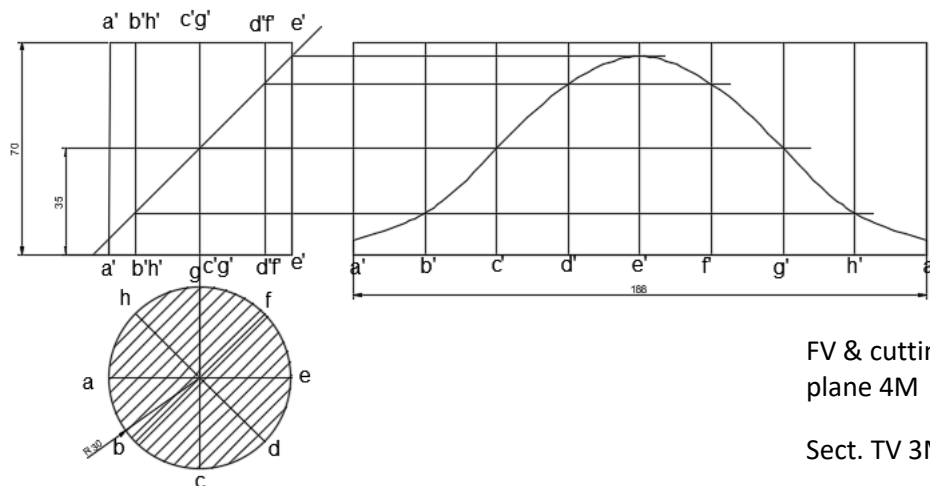


FV & cutting plane 4M

Sect. TV 3M

Development 3M

- ii) A cylinder of 60 mm diameter and axis 70 mm long stands with its circular base on HP. A section plane inclined at 45° to HP bisects the axis of cylinder. Draw FV and sectional TV. Also draw the development of lateral surface of retained cylinder.



FV & cutting plane 4M

Sect. TV 3M

Development 3M

Q.4

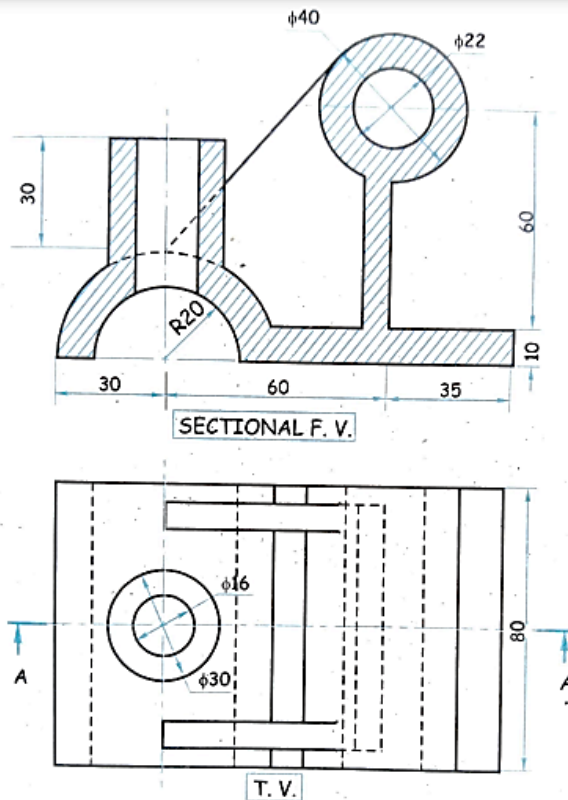
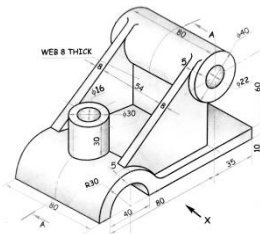
Attempt the following

Draw sectional FV along A-A and TV
Insert important dimensions

10

Sect. FV 6M

TV 4M



Q.5

Attempt the following

Draw an isometric view of given object with respect to origin 'O'

10

