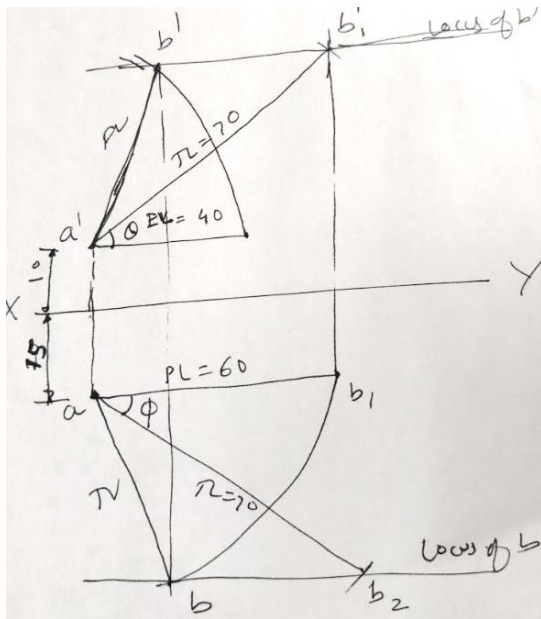
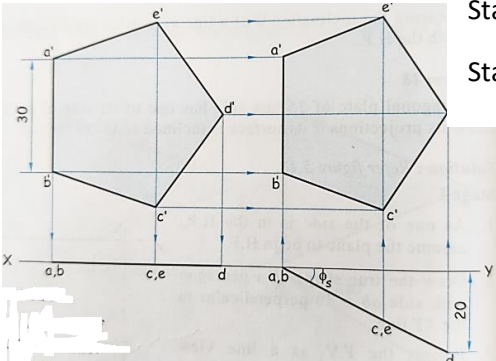
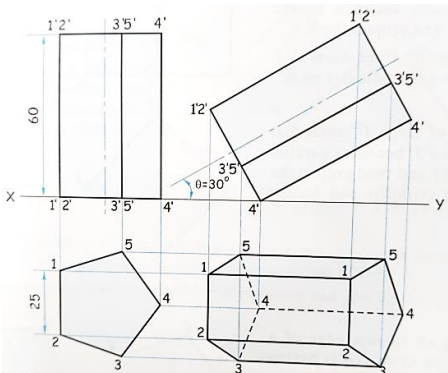
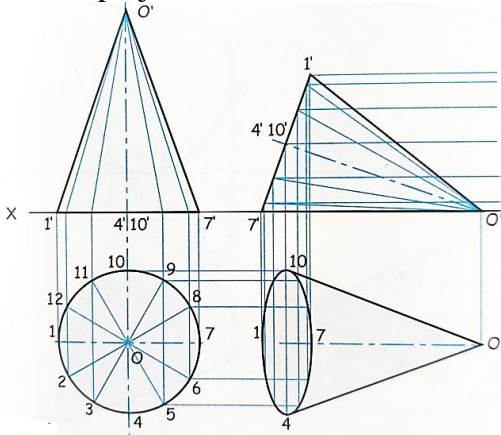
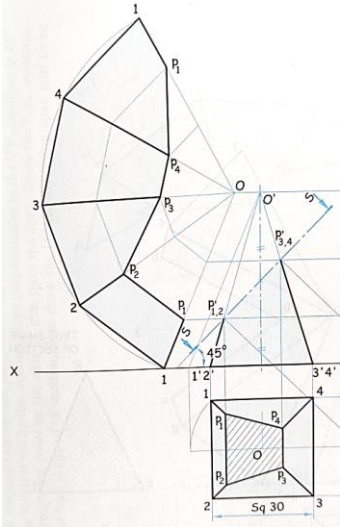
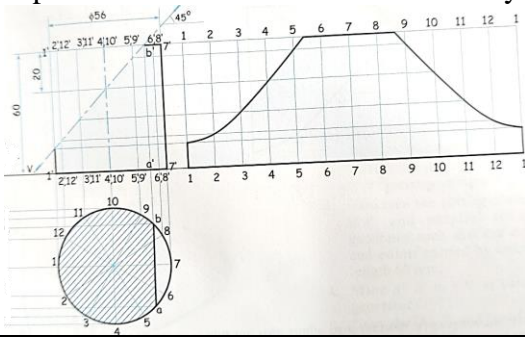
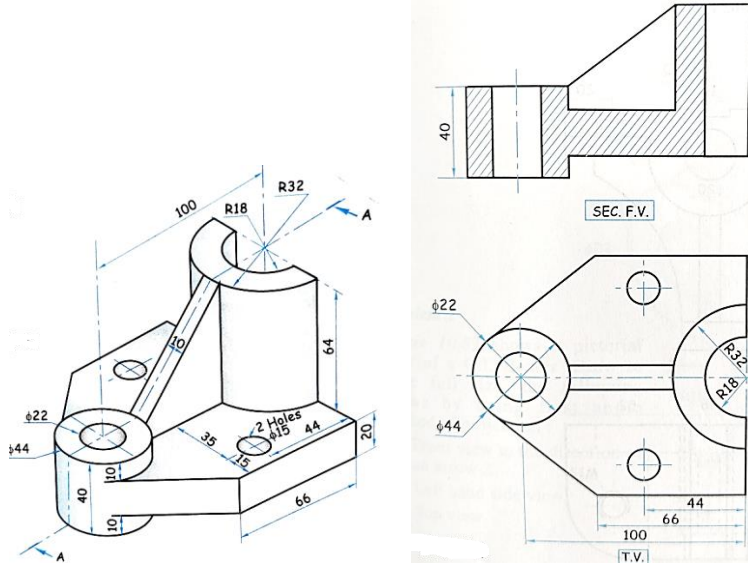




Semester: July 2023 – December 2023		
Maximum Marks: 50	Examination: End-Semester Examination	Duration: 2 Hrs.
Programme code: 01 Programme: BTech	Class: FY	Semester: (SVU 2023)
Name of the College: K. J. Somaiya College of Engineering	Name of the department: All	
Course Code: 216U06C105	Name of the Course: Engineering Drawing (Marking scheme)	
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 10 mm above HP and 15 mm in front of VP. Its top view and front view measures 60 mm and 40 mm respectively. Draw the projections of line and determine its inclinations with HP and VP.</p> <div></div> <p>Given 3M Solution 5M Dim 2M</p>	

ii)	<p>A pentagonal plate of 30 mm side has one of its sides in VP. The corner opposite to this side is 20 mm in front of VP. Draw the projections and find the inclination of surface with VP.</p>  <p style="text-align: right;">Stage 1 4M Stage 2 6M</p>	
Q.2	Attempt any ONE	10
i)	<p>A pentagonal prism having an edge of base 25 mm axis height 60 mm has one of its corners in HP and the axis is inclined at 30° to HP. Draw the projection of the solid.</p>  <p style="text-align: right;">Stage 1 4M Stage 2 6M</p>	
ii)	<p>A cone of 50 mm diameter and axis length 70 mm is resting on one of its generators in HP. Draw the projections of cone.</p>  <p style="text-align: right;">Stage 1 4M Stage 2 6M</p>	
Q.3	Attempt any ONE	10
i)	<p>A square pyramid of 30 mm edges of base and 50 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 bisects the axis and is inclined at 45° to the HP. Draw FV and sectional TV. Also develop lateral surface of retained pyramid</p>	

	 <p>FV & cutting plane 4M</p> <p>Sect. TV 3M</p> <p>Development 3M</p>	
ii)	<p>A cylinder of 56 mm diameter and axis 60 mm long stands with its circular base on HP. A section plane perpendicular to VP and inclined at 45° to HP cuts the axis at a point 25 mm from its top end. Draw FV and sectional TV. Also draw the development of lateral surface of retained cylinder.</p>  <p>FV & cutting plane 4M</p> <p>Sect. TV 3M</p> <p>Development 3M</p>	
Q.4	<p>Attempt the following</p> <p>Draw sectional FV along A-A and TV</p> <p>Insert important dimensions</p>  <p>Sect. FV 6M</p> <p>SV 4M</p>	10
Q.5	<p>Attempt the following</p> <p>Draw an isometric view of given object with respect to origin 'O'</p>	10

