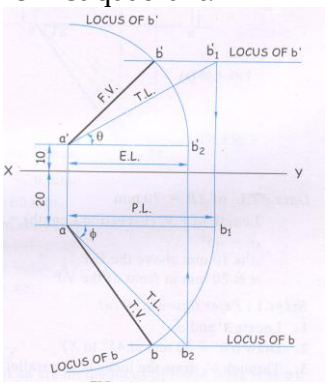
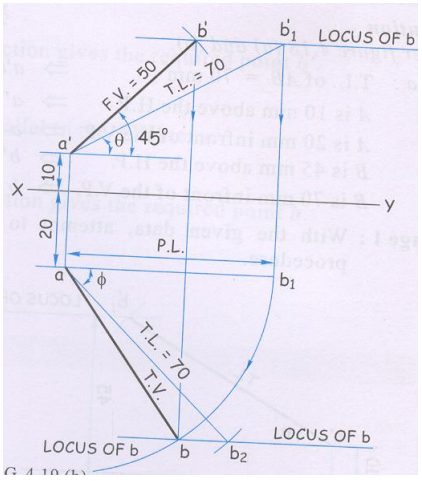
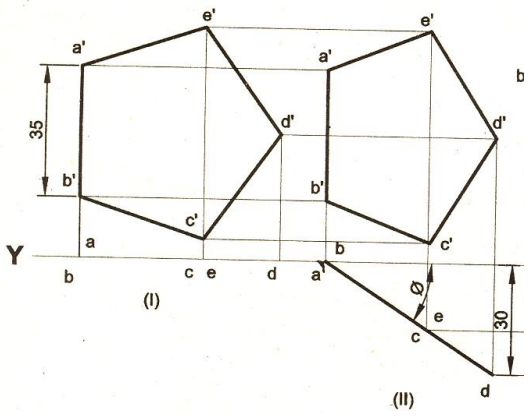
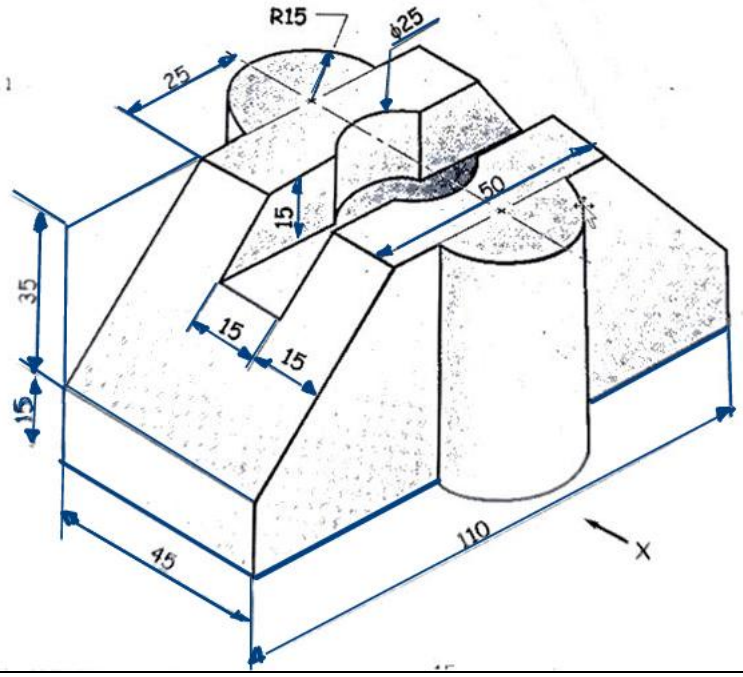
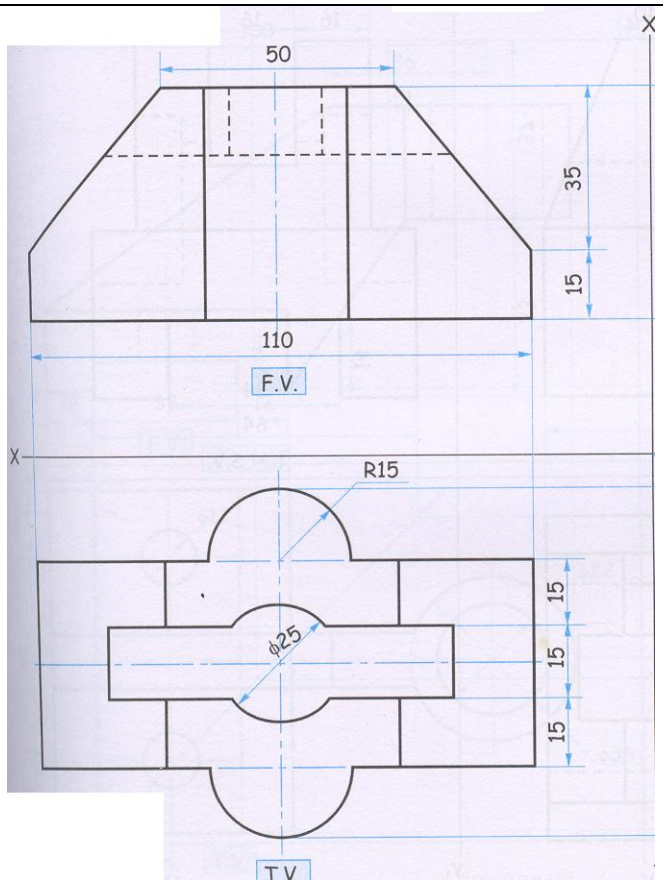
SOMAIYA VIDYAVIHAR UNIVERSITY

Semester: Aug 2025 –Nov. 2025 **Maximum Marks:** 30 **Examination: Mid-Semester Examination** **Duration:** 1 Hr 15 Min			
Programme code: 05 **Programme: B.Tech**	**Class:** FY	**Semester:** I **(SVU R-2025)**	**SET A**
Name of the Institute: **K. J. Somaiya School of Engineering**		**Name of the department:** COMP/ETRX/EXTC/IT/MECH	
Course Code: 316U06C105	**Name of the Course: Engineering Drawing**		

Question No.		Max. Marks
Q1	A line AB, 70 mm long has its end A 10 mm above the HP and 20 mm in front of the VP. The end B is 45 mm above the HP and 70 mm in front of the VP. Draw the projections of line AB and find its inclination with HP and VP. Assume complete line in the first quadrant.  **OR** The FV of line AB, 70 mm long is inclined at 45° to XY, measure 50 mm. The end point A is 10 mm above the HP and 20 mm in front of VP. Draw the projections of line AB and find its inclination with the HP and VP.  	8
Q2	ABCDE is a thin pentagonal plate of 35 mm sides. The edge AB is in VP. The corner D is 30 mm away from the VP. Obtain the projections of the plane and find its inclinations with the reference planes.	8

		
Q3	Figure shows pictorial view of object. Draw the following views using the first angle method of projections, a) Front view from 'X' direction b) Top View Insert important dimensions 	14


X
50
35
15
110
F.V.
X
R15
ϕ25
15
15
15
T.V.

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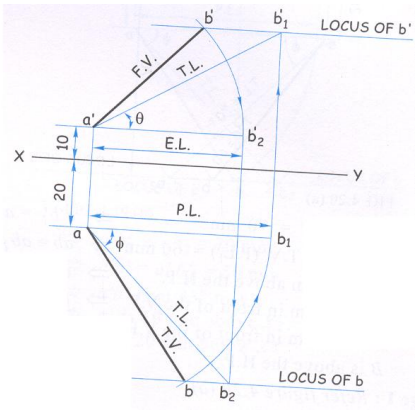
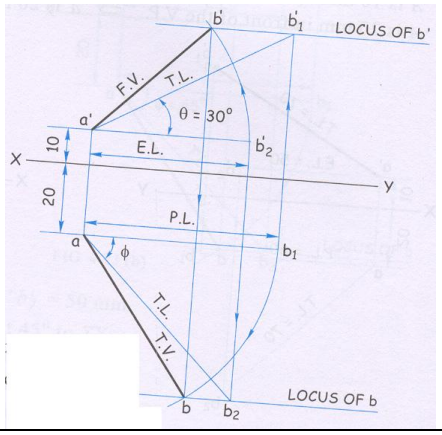
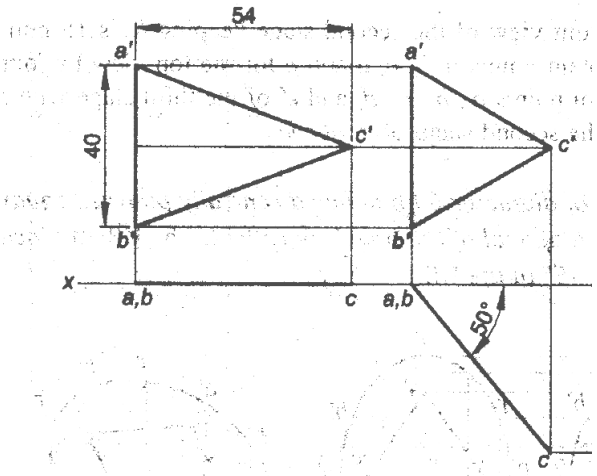
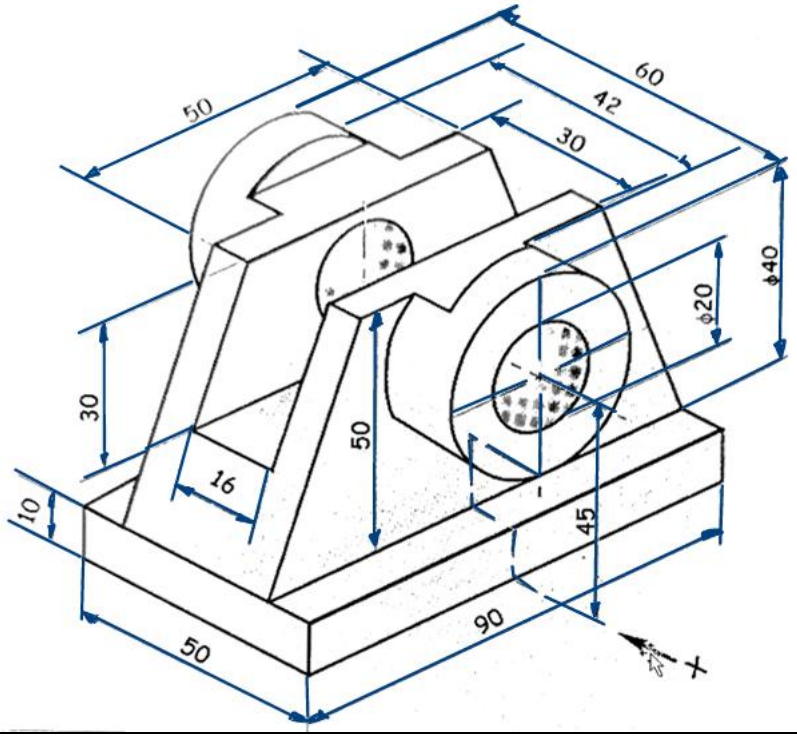
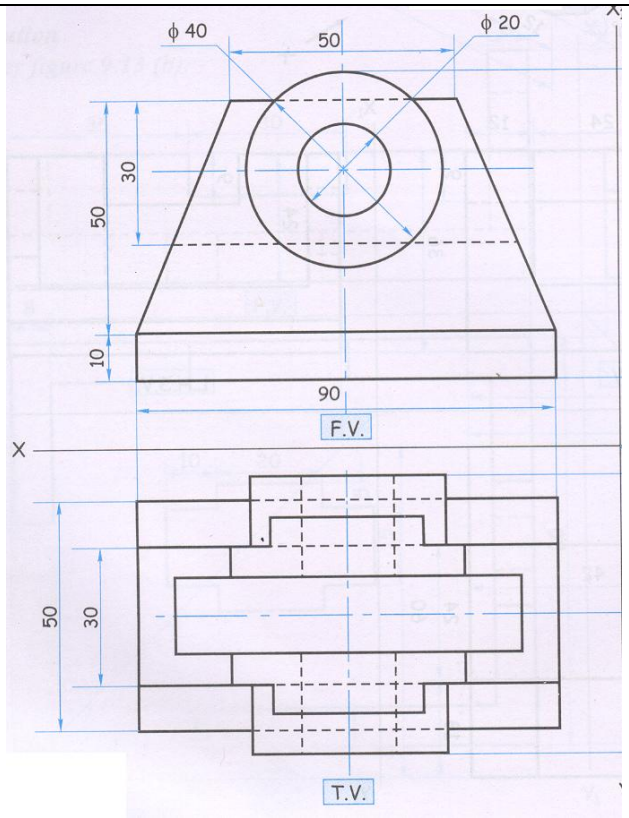
Name of the Institute: **K. J. Somaiya School of Engineering**		**Name of the department:** COMP/ETRX/EXTC/IT/MECH	
Course Code: 316U06C105	**Name of the Course: Engineering Drawing**		

Question No.		Max. Marks
Q1	The distance between the end projectors of a line AB is 35 mm. The end A is 10 mm above the HP and 20 mm in front of the VP while end B is 45 mm above the HP and 70 mm in front of the VP. Draw the projections of line and determine its inclinations with HP and VP. Also find its True length.  **OR** The elevation length and plan length of line AB measures 50 mm and 60 mm respectively. The line AB is inclined at 30° to the HP and the end point A is 10 mm above the HP and 20 mm in front of the VP. Draw the projections of line AB.  	8
Q2	A plate having shape of an isosceles triangle has a base 40 mm and altitude 54 mm. It is so placed that in the front view it is seen as an equilateral triangle of side 40 mm. Draw its projections.	8

		
Q3	Figure shows pictorial view of object. Draw the following views using the first angle method of projections, a) Front view from 'X' direction b) Top View Insert important dimensions 	

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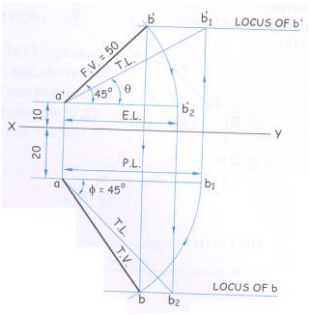
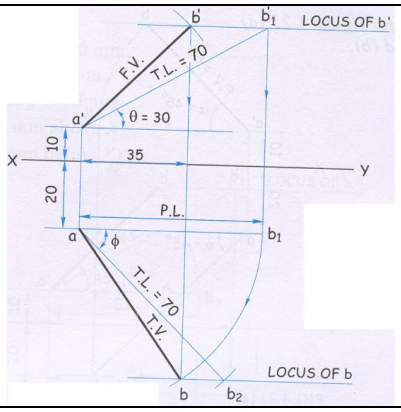
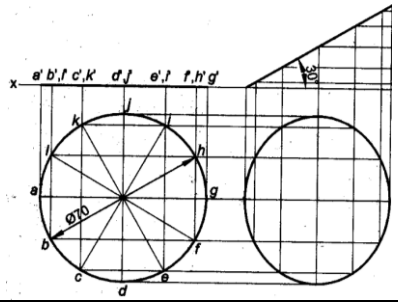
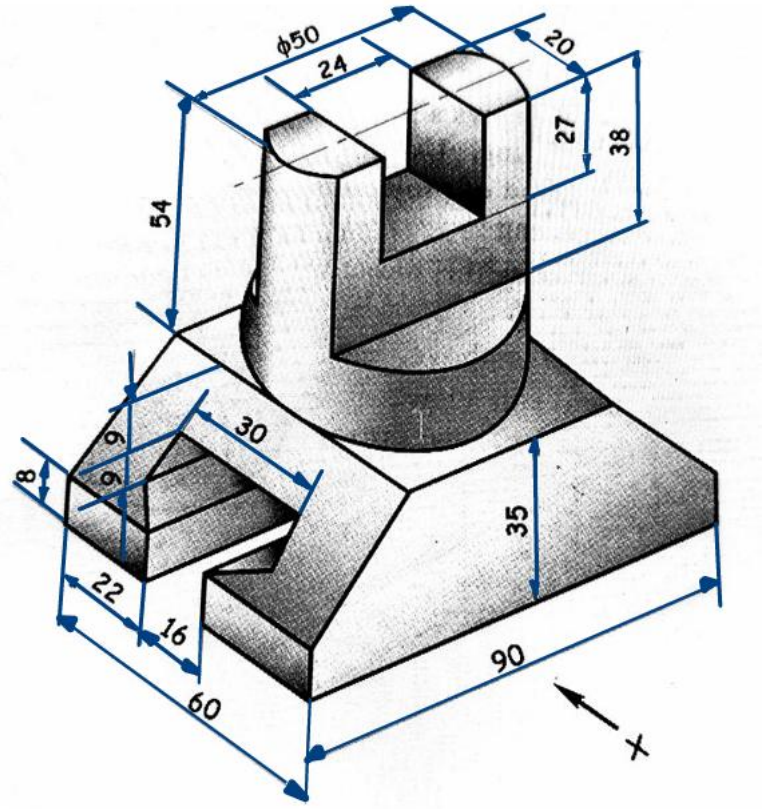
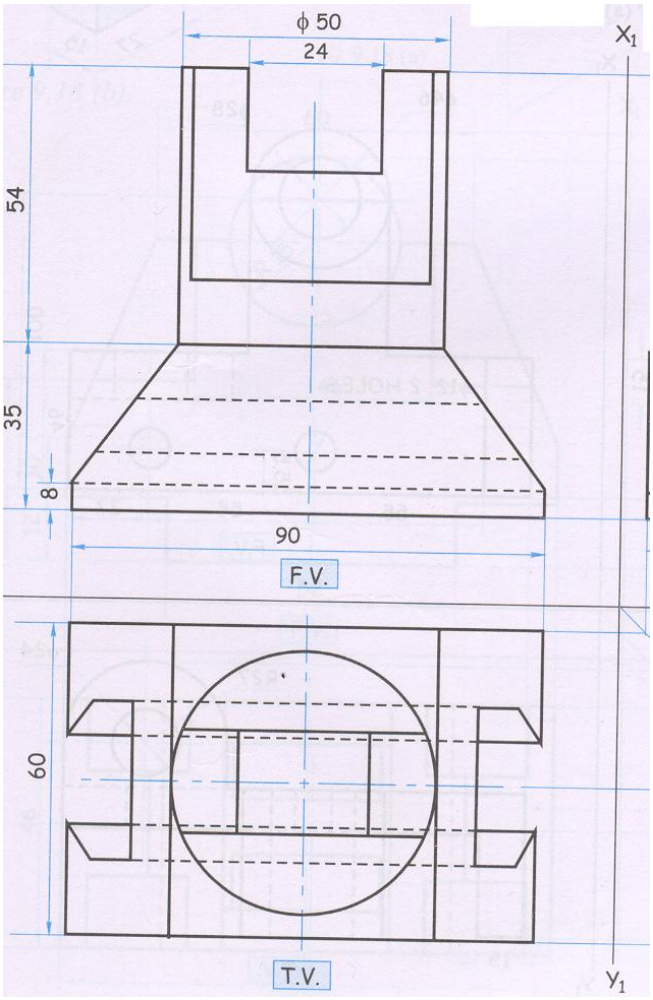
Programme code: 05 **Programme: B.Tech**	**Class:** FY	**Semester:** I **(SVU R-2025)**	**SET C**
Name of the Institute: **K. J. Somaiya School of Engineering**		**Name of the department:** COMP/ETRX/EXTC/IT/MECH	
Course Code: 316U06C105	**Name of the Course: Engineering Drawing**		

Question No.		**Max. Marks**
Q1	The FV of line AB measures 50 mm and makes an angle 45° with the XY line. The point A is 10mm above the HP and 20 mm in front of VP. Draw the projections of line AB if it is inclined with the VP at 45°.  **OR** The distance between the end projectors of a line AB is 35 mm. The line AB is 70 mm long and is inclined at 30° to the HP. The end A is 10 mm above the HP and 20 mm in front of the VP. Draw the projections of line AB.	8

		
Q2	A circular plane of diameter 70 mm has one of the ends of the diameter in the HP. The plane is inclined at 30° to the HP. Draw its projections. 	8
Q3	Figure shows pictorial view of object. Draw the following views using the first angle method of projections, a) Front view from 'X' direction b) Top View Insert important dimensions. 	


ϕ 50
24
X1
54
35
8
90
F.V.
60
T.V.
Y1