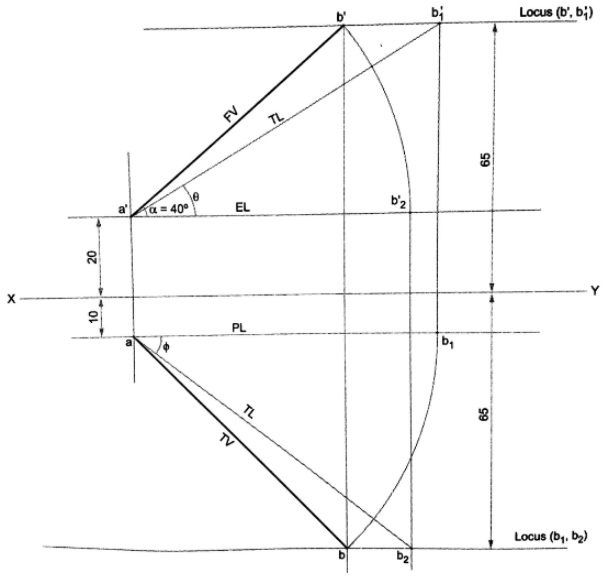
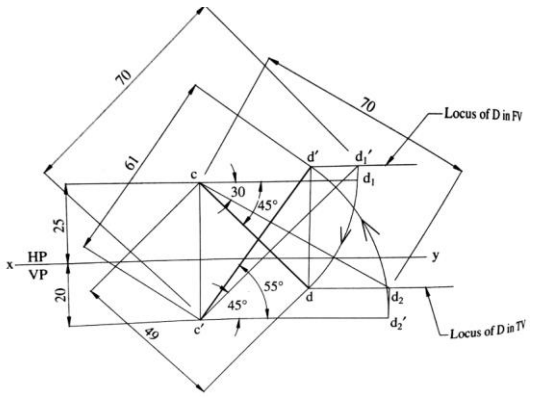
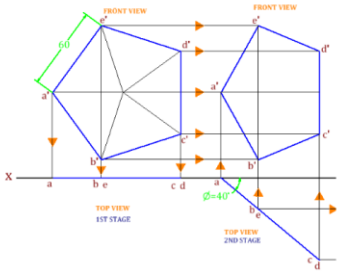
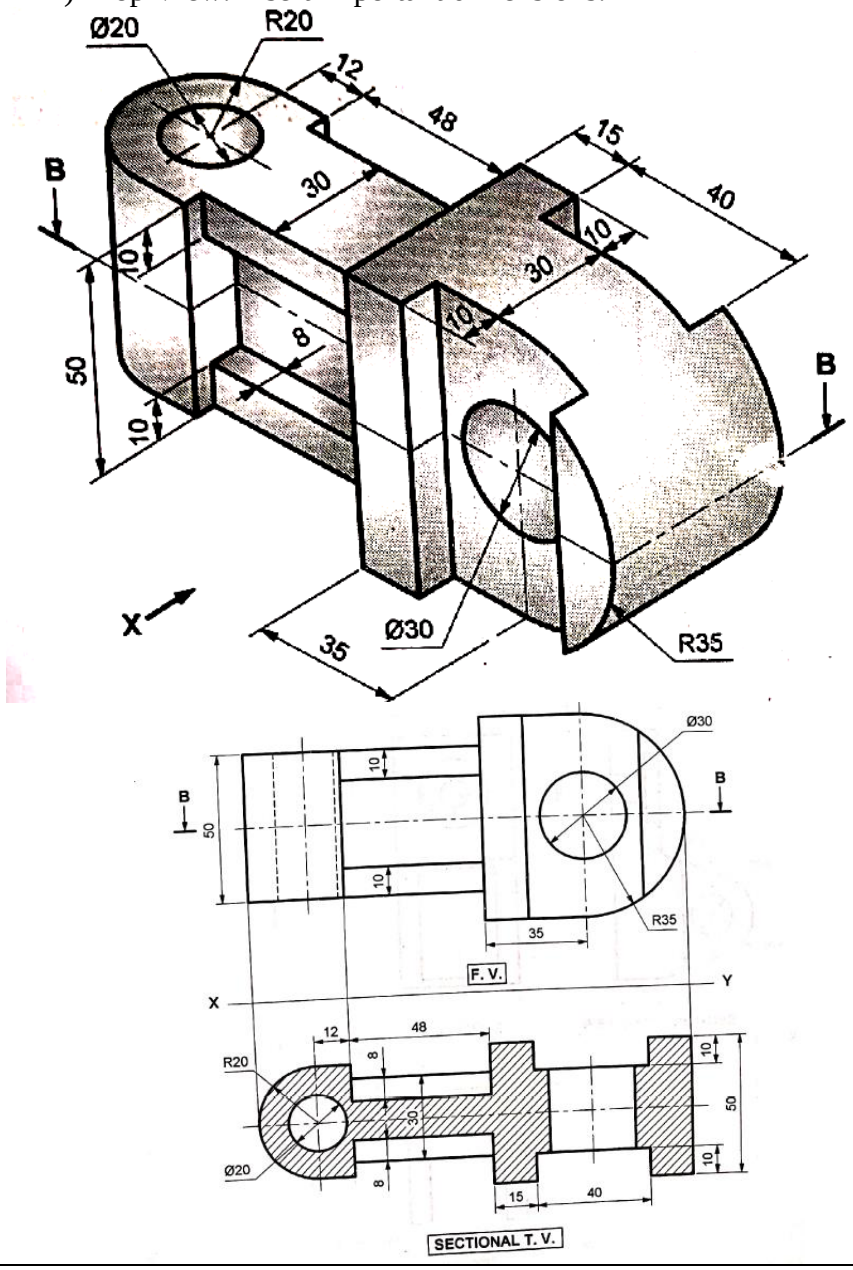
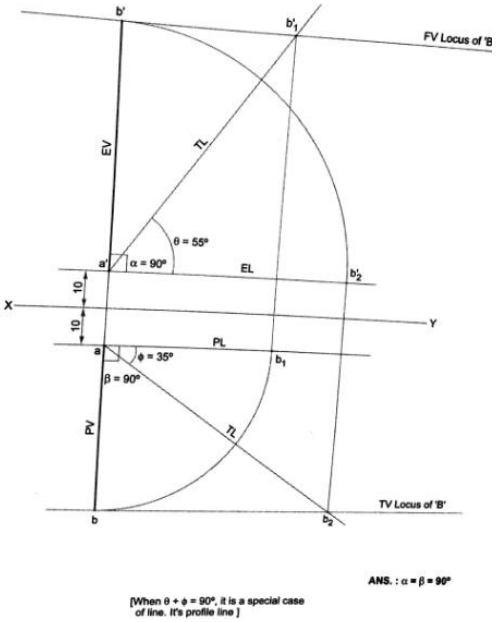
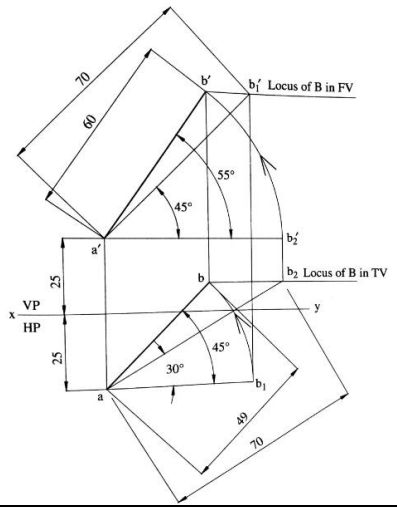
SOMAIYA VIDYAVIHAR UNIVERSITY

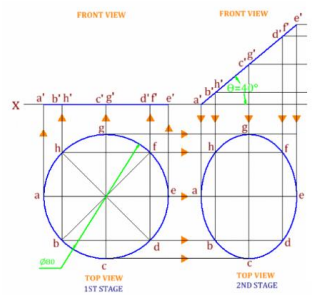
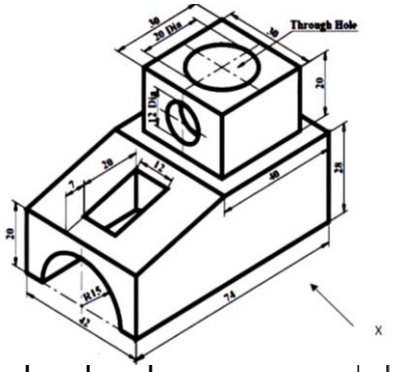
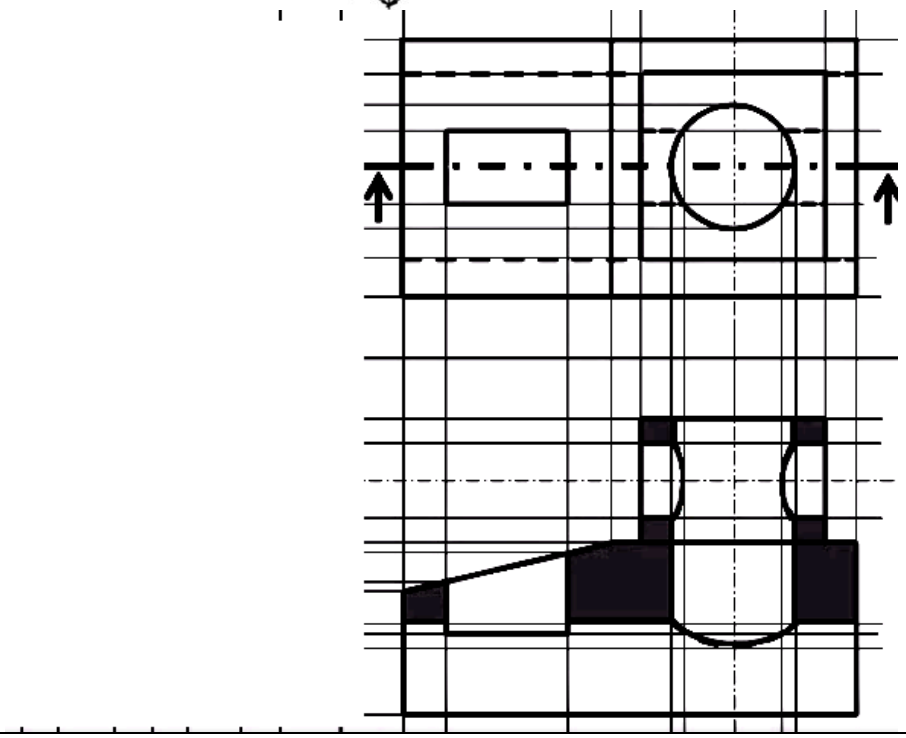
Semester: February 2023 – June 2023 **Maximum Marks:** 30 **Examination: In-Semester Examination** **Duration:** 1 Hr 15 Min			
Programme code: 01 **Programme:**	**Class:** FY	**Semester:** II **(SVU 2020)**	**Set A**
Name of the Constituent College: **K. J. Somaiya College of Engineering**		**Name of the department:** COMP/ETRX/EXTC/IT/MECH	
Course Code: 111U06C105	**Name of the Course: Engineering Drawing**		

QNo.		Max. Marks	CO Mapped
Q1	Draw the projections of line AB if its front view measures 70 mm and is inclined at 40º with XY line. Its end A is 20 mm above HP and 10 mm in front of VP. The other end B is equidistance from both the reference planes. Find its inclinations with HP and VP.  ANS. : θ = 30° ϕ = 40° TL = 90 mm OR A line CD of length 70 mm has its end C 20 mm below HP and 25 mm behind VP. The other end D is in first quadrant and the line is inclined at 30º to VP and 45º to HP. Draw the projections of line.  	8	1

Q2	A pentagonal plate of side 60 mm is held on V.P. on one of its corner. The flat surface of pentagon is inclined at 40° to the V.P. Draw the projections.  	8	1
Q3	Figure shows pictorial view of an Object. (Use First angle Projection method) Draw : i) Front View; ii) Top View. Insert important dimensions.  	14	2

Semester: February 2023 – June 2023			
Maximum Marks: 30	**Examination: In-Semester Examination**		**Duration:** 1 Hr 15 Min
Programme code: 01 **Programme:**	**Class:** FY	**Semester:** II **(SVU 2020)**	**Set B**
Name of the Constituent College: **K. J. Somaiya College of Engineering**		**Name of the department:** COMP/ETRX/EXTC/IT/MECH	
Course Code: 111U06C105	**Name of the Course: Engineering Drawing**		

Q No.		Max. Marks	CO Mapped
Q1	The point A of 80 mm long line AB is 10 mm above HP and 10 mm in front of VP. Line makes an angle of 55º with HP and 35º with VP. Draw its projections.  OR A line AB of length 70 mm has one end A 25 mm above HP and 25 mm in front of VP. The other end B is in the second quadrant and the line is inclined at 45º to HP and 30º to VP. Draw the projections of the line.  	8	1

Q2	A circular plate of diameter 80 mm is resting on a point of its periphery on HP such that it makes an angle of 40° to the HP. Draw the projections of it.  	8	1
Q3	Figure shows pictorial view of object. Draw using first angle method of projections, i. Front view along symmetric axis in the direction of arrow; ii. Top View; iii. Insert important dimensions  	14	2

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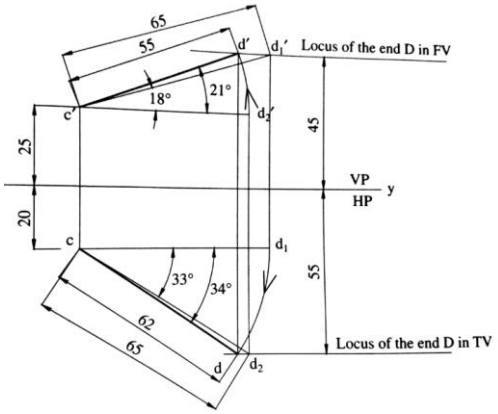
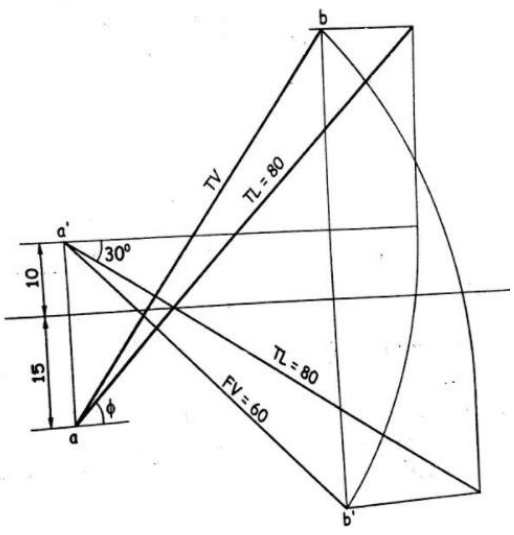
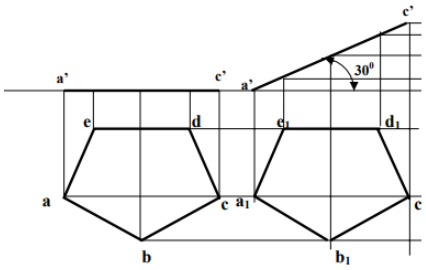
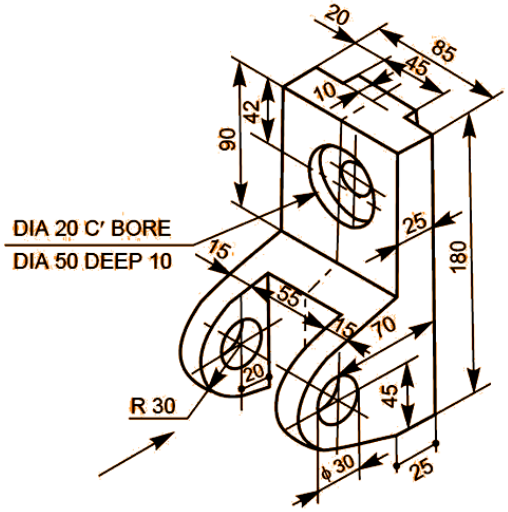
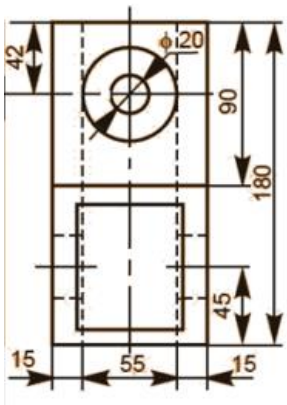
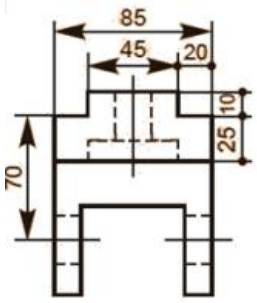
Semester: February 2023 – June 2023			
Maximum Marks: 30 **Examination: In-Semester Examination**			**Duration:** 1 Hr 15 Min
Programme code: 01 **Programme:**	**Class:** FY	**Semester:** II **(SVU 2020)**	**Set C**
Name of the Constituent College: **K. J. Somaiya College of Engineering**		**Name of the department:** COMP/ETRX/EXTC/IT/MECH	
Course Code: 111U06C105	**Name of the Course: Engineering Drawing**		

Q No.		Max. Marks	CO Mapped
Q1	A line CD of length 65 mm has its end C 25 mm above HP and 20 mm in front VP. The other end D is 45 mm above HP and 55 mm in front of VP. Draw the projections of the line and find its inclinations with respect to principal planes.  OR The front view of a line AB 80 mm long, measures 60 mm. The end A is 15 mm in front of VP and 10 mm above HP. The end B is in third quadrant. Draw the projections of the line, if the line is inclined 30º to HP. Also find the inclination of line with VP.  	8	1

Q2	Draw the projections of a regular pentagon of 40 mm side, having its surface inclined at 30° to the HP and one of the side parallel to the VP. Take the side parallel to VP nearer to VP. The pentagon is resting on one of the corner on the HP.  	8	1
Q3	Figure shows the pictorial view of sliding block. Draw the following views (use first angle projection) a. Front view in the direction of arrow X b. Top View    	14	2