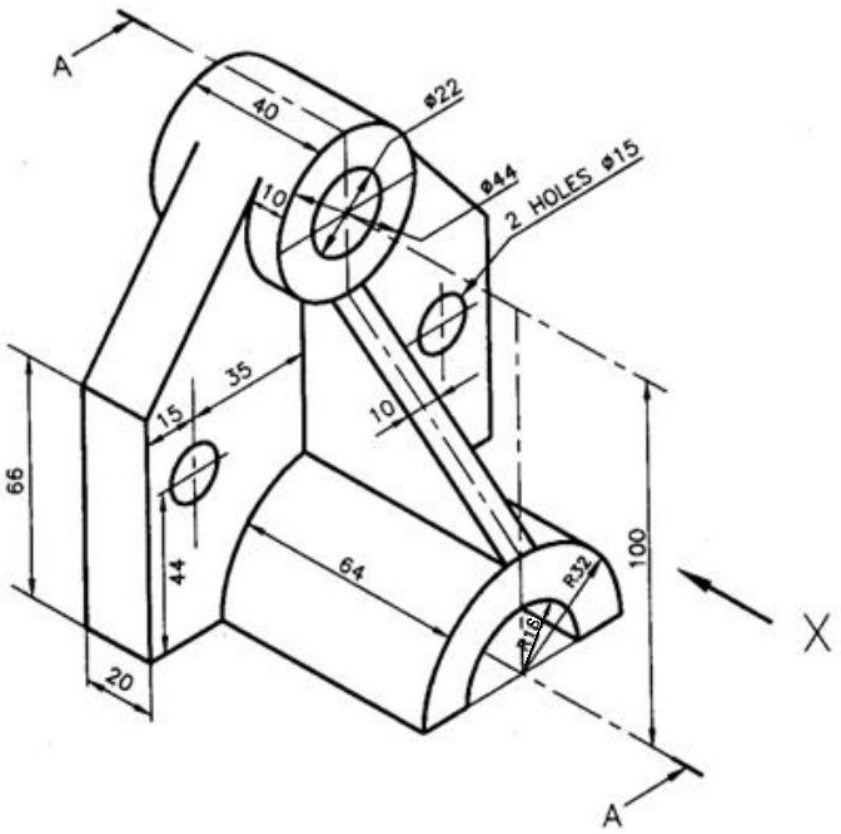
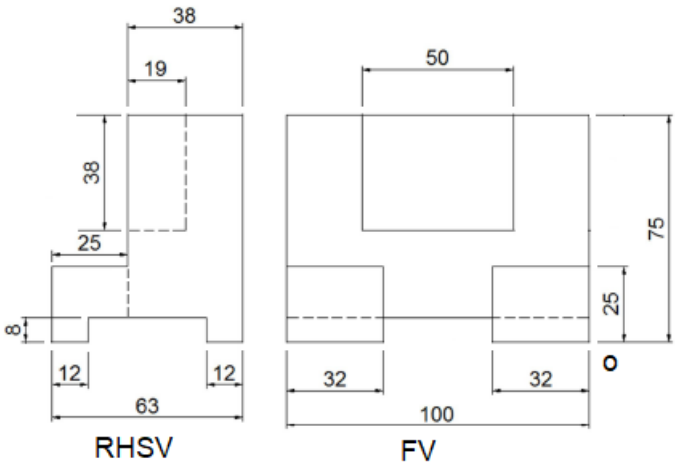
SOMAIYA VIDYAVIHAR UNIVERSITY

Semester: October 2021 – Feb 2022 **Examination: ESE Examination**		
Programme code: 01 **Programme: B.TECH**	**Class: FY**	**Sem I (SVU 2020)**
Name of the Constituent College: **K. J. Somaiya College of Engineering**	**Name of the Department** **COMP / IT** and KT	
Course Code: 116U06C105	**Name of the Course: Engineering Drawing**	
Duration : 2 Hour	**Maximum Marks : 50**	
Instructions: **1)Draw neat diagrams 2) Assume suitable data if necessary**		

Question No.		Max Marks
Q1 (A)	A line CD 75mm long has its end C 25mm in front of VP and 15mm above HP. The end D lies in Third quadrant while line is inclined at an angle of 30˚ to HP and 45˚ to VP. Draw the projections of the line and find inclinations of FV and TV.	06
Q1 (B)	A square plane of 50 mm side has one of its corners in the H.P. The diagonal containing this corner is inclined at 40° to the H.P. and the other diagonal is parallel to the H.P. Draw the projections of square plane.	06
Q. 2	Figure shows pictorial view of an object. Draw F.V. and sectional LHSV using first angle method of projection. Name the views and insert important dimensions. 	12

Q. 3	Figure shows F.V. and R.H.S.V. of an object. Draw isometric view about an origin 'O'.  	06
Q. 4	A pentagonal pyramid, side of base 40mm and axis 70mm long is lying with one of its triangular faces on the HP. Draw the projection of pyramid when the axis is inclined at 30^0 to VP and apex is nearer to observer. **OR** A cone of 70mm length of axis is resting on one of its generators in VP while its front view of axis is inclined at 40^0 to XY line and the apex is nearer to the observer. Draw the projections of the cone if the radius of base is 30mm.	12
Q. 5	A cylinder of 30mm diameter of base and 80mm height is resting on its base in HP. It is cut by a section plane normal to VP and inclined at 55^0 to HP passing from axis at a point 30mm below the top surface. Draw FV, sectional TV and development of lateral surface of truncated cylinder. **OR** A square prism 30 mm edge of base, 50 mm axis length rests vertically on its base with adjacent edges of base equally inclined to VP. It is cut by a cutting plane perpendicular to VP and inclined at 45˚ to HP, such that it bisects the axis. Draw FV, sectional TV and development of lateral surface of prism remaining after the section.	08