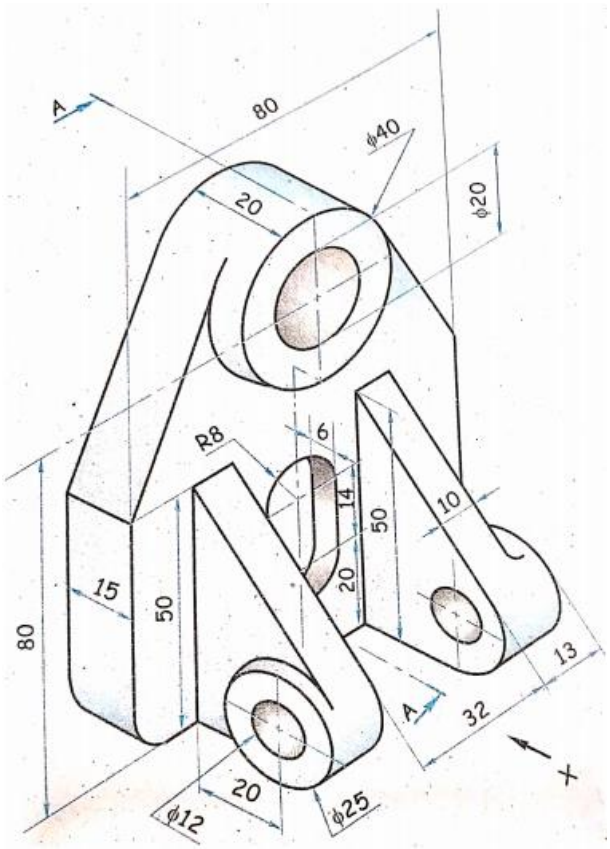
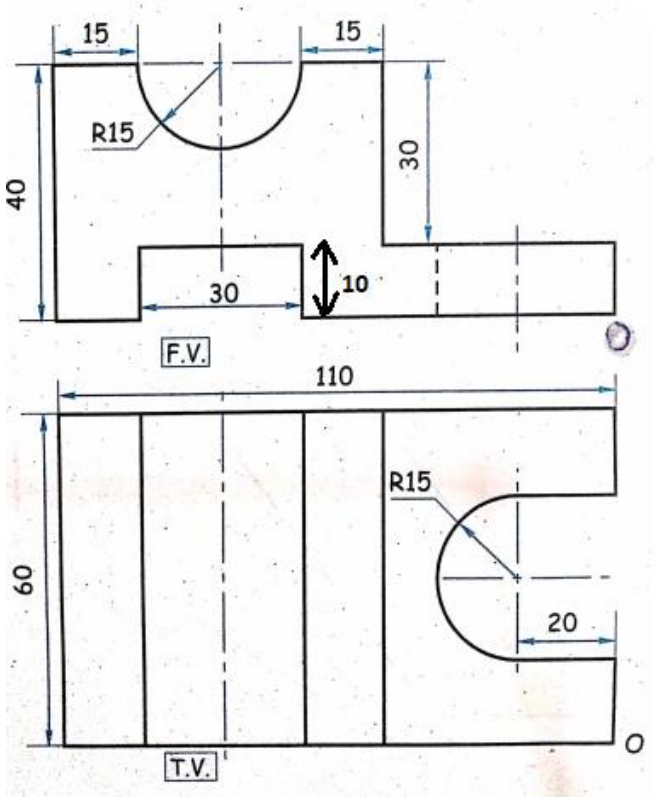
SOMAIYA VIDYAVIHAR UNIVERSITY

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

Question No.		Max Marks
Q1 (A)	The Top view of a line is 60 mm. The inclination of the top view with XY line is 56°. A point A is 10 mm above HP and 20 mm in front of VP. Point B is 45 mm above HP and in front of VP. Draw the projections of line AB.	6
Q1 (B)	Draw the projections of a circular plate 60 mm diameter resting in VP on a point A on the circumference such that its surface inclined at 45° to the VP.	6
Q. 2	 Draw a) the elevation in the direction of arrow X and b) Sectional left hand side view with section along A-A.	12

Q. 3	 Figure shows the Front view and top view of the object. Draw the isometric projection about the origin O.	6
Q. 4	A square pyramid of side of base 40 mm and height 50 mm lies on one of its triangular faces on the H.P. The base edge contained by the face lying on HP is inclined at 45^o to VP. Draw the projections of the solid taking apex nearer to observer. **OR** A square prism side of base 40 mm and axis length 60 mm has one of its side of base in HP which makes an angle of 30^o with VP and axis inclined at 45^o with HP. Draw its projections.	12
Q.5	A cylinder of 60 mm diameter and 80 mm long axis stands with its circular base on HP. It is cut by a section plane perpendicular to VP and inclined at 60^o to HP. The cutting plane cuts the axis at a point 20 mm from its top end. Draw its development of lateral surface with the upper portion removed. **OR** A cone of base diameter 40 mm, axis height 50 mm has its base in HP. It is cut by an auxiliary inclined plane which makes an angle of 45^o to HP and passes through a point on the axis 20 mm below the apex. Develop the lateral surface of the cone with upper portion removed.	8