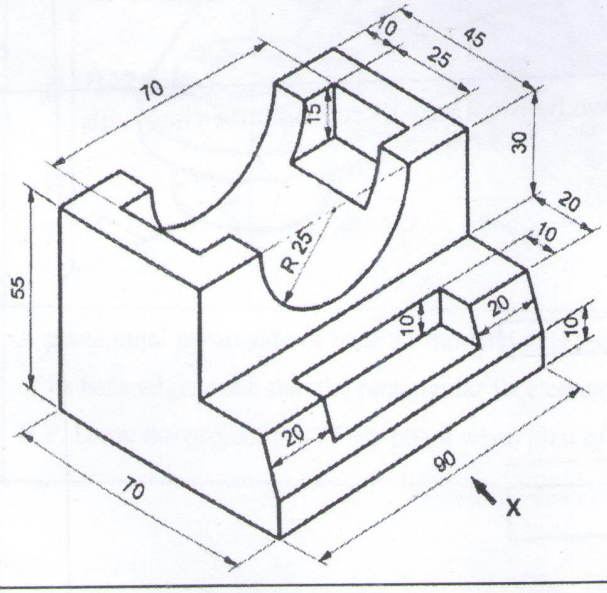
K. J. Somaiya Institute of Technology, Sion, Mumbai-22
(Autonomous College Affiliated to University of Mumbai)

May - June 2024
(B.Tech.) Program: All Branches Scheme: II
Supplementary Examination: FY Semester: II
Course Code: BSC204 and Course Name: Engineering Graphics

Date of Exam: 02/08/2024 Duration: 03 Hours Max. Marks: 60

Instructions:
(1)All questions are compulsory.
(2)Use first angle method of projection.
(3)Assume suitable dimension, if necessary.
(4)Retain all construction lines.
(5)All dimensions are in mm.

		Max. Marks	CO	BT level
Q.1	**Attempt any one out of two:-**			
a.	The top view and front view of a line AB measures 65 mm and 60 mm respectively. The line AB is inclined at an angle of 30° to HP. The end A is 10 mm above HP and 15 mm in front of VP. The other end B is also in the first quadrant. Draw the projections of line AB and find its true length and true inclination with VP.	10	1	A
b.	For the figure below – Draw 1. Front view from X direction 2. L. H. S. V  	10	4	A
Q.2	**Attempt any two out of three:-**			
a.	For the figure shown below, draw the following views -	15	5	A

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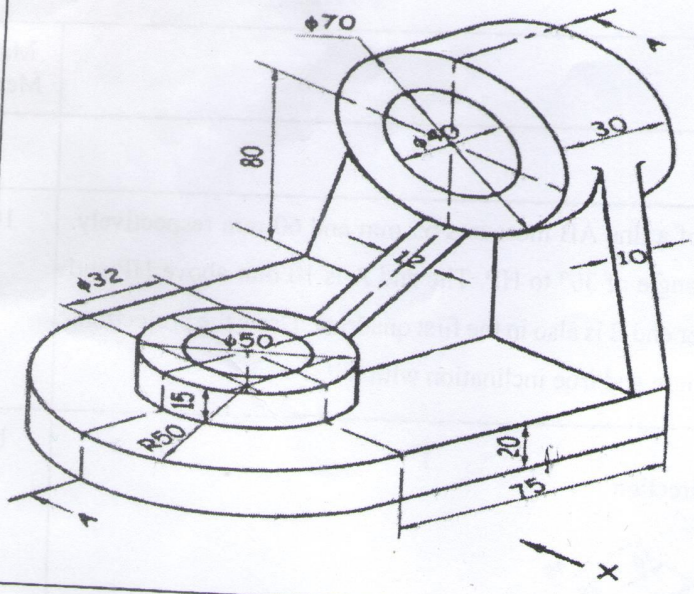
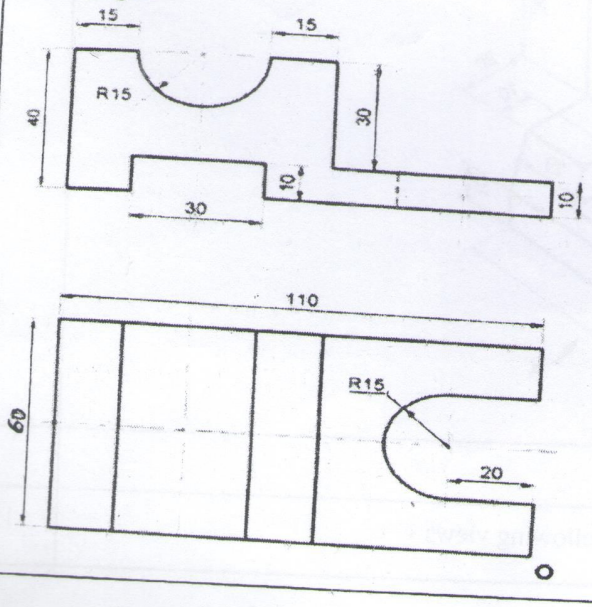
	1. Sectional front view from X direction (along AA) 2. Top view 3. L.H.S.V 			
b.	The two views of an object are shown below. Draw there isometric view with O as origin. 	15	6	A

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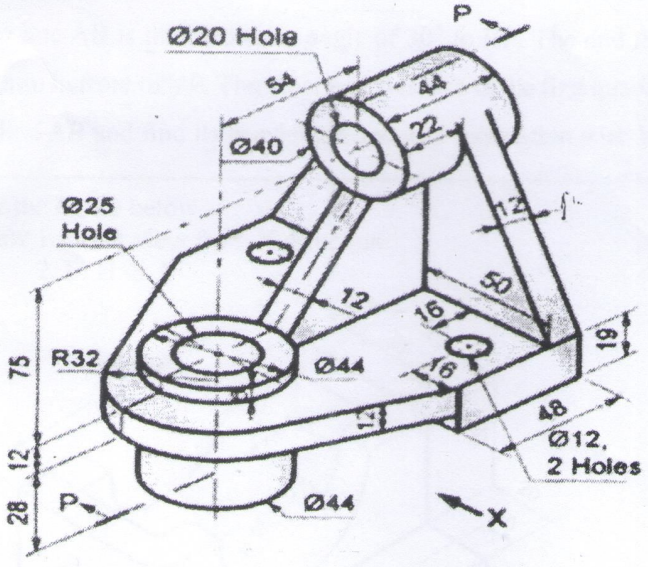
c.	A cone base diameter 50 mm and axis length 60 mm is kept on H.P on a point of its base circle in such a way that its axis makes an angle of 35° with H.P. Draw the projections of the cone when top view axis makes 40° to the XY line.	15	2	A
Q.3	**Attempt any one out of two:-**			
a.	For the figure shown below, draw the following views - 1. Sectional front view from X direction (along PP) 2. Top view 3. L.H.S.V 	20	5	A
b.	A pentagonal prism side of base 35 mm and axis length 70 mm is kept on H.P on one of its base edges such that the rectangular face containing that base edge makes 30° to H.P. Draw the projections of the prism when plan of axis makes 40° to VP.	20	2	A

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