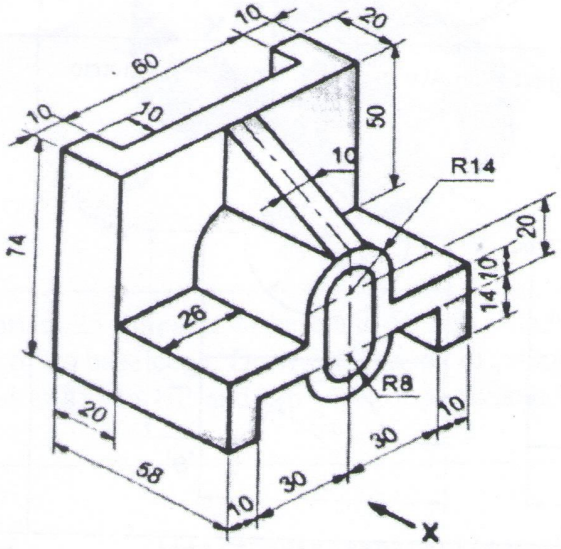
K. J. Somaiya Institute of Technology, Sion, Mumbai-22
(Autonomous College Affiliated to University of Mumbai)

June 2023
(B.Tech / M.Tech.) Program: FY (All Branches) Scheme :II
Examination: FY Semester: II
Course Code: BSC204 and Course Name: Engineering Graphics

Date of Exam: 21/06/2023 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 front view of 90 mm straight line AB measures 60 mm while its top view measures 70 mm. Draw its projections if its point 'A' is 12 mm above HP and 22 mm in front of the VP. Also determine its true inclinations. Point 'B' is in first quadrant.	10	CO1	A
b.	The pictorial view of a machine part is shown in following figure. Draw (i) Front View along x-direction (ii) Left Hand Side View Insert at least 6 major dimensions. 	10	CO4	A

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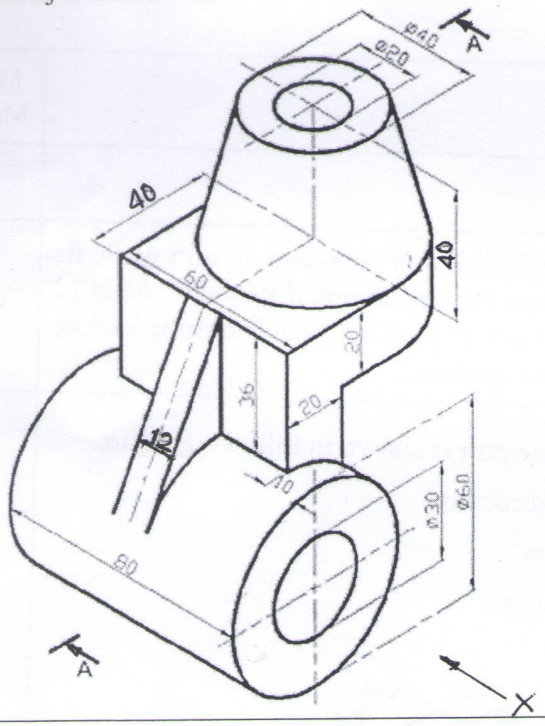
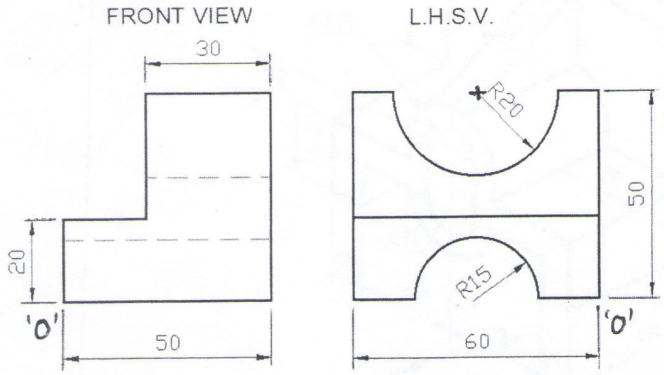
Q.2	**Attempt any two out of three:-**			
a.	Following figure shows the pictorial view of an object. Draw (i) Sectional Front View along section A-A (ii) Top View (iii) Left Hand Side View Insert at least 10 major dimensions. 	15	CO5	A
b.	Front View and LHSV of an object is shown in figure. Draw an Isometric View 	15	CO6	A

P.T.O. (Q.2 c.)

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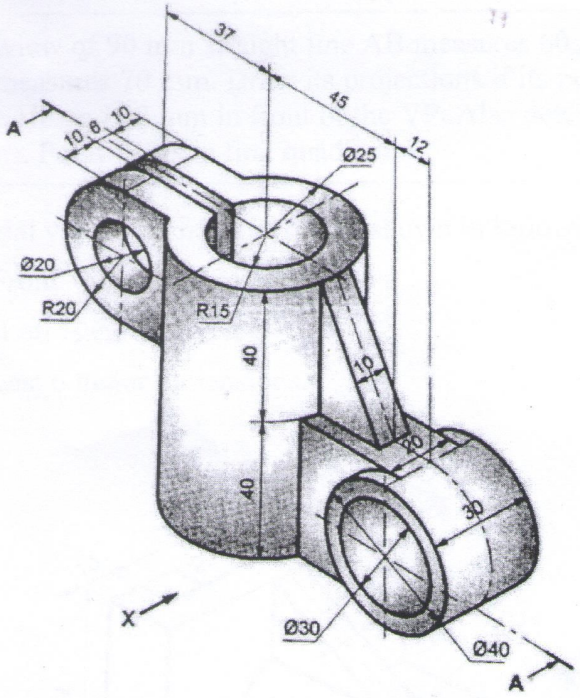
c.	A pentagonal pyramid of base 35 mm and axis height 70 mm is resting on one of its base edge in the HP. Draw its projections if the triangular face containing that base edge is inclined at 45° to the HP and its TV of an axis is inclined at 60° to the VP. Apex is nearer to the observer.	15	CO2	A
Q.3	**Attempt any one out of two:-**			
a.	Following figure shows the pictorial view of machine part. Draw (i) Sectional Front View along section A-A (ii) Top View (iii) Right Hand Side View Insert at least 10 major dimensions. 	20	CO5	A
b.	A hexagonal prism 25 mm side of base and 50 mm axis height rests on HP on one of its base edge. Draw projections of prism when the axis is inclined at 45° to HP and top view of an axis is inclined at 40° to VP.	20	CO2	A

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