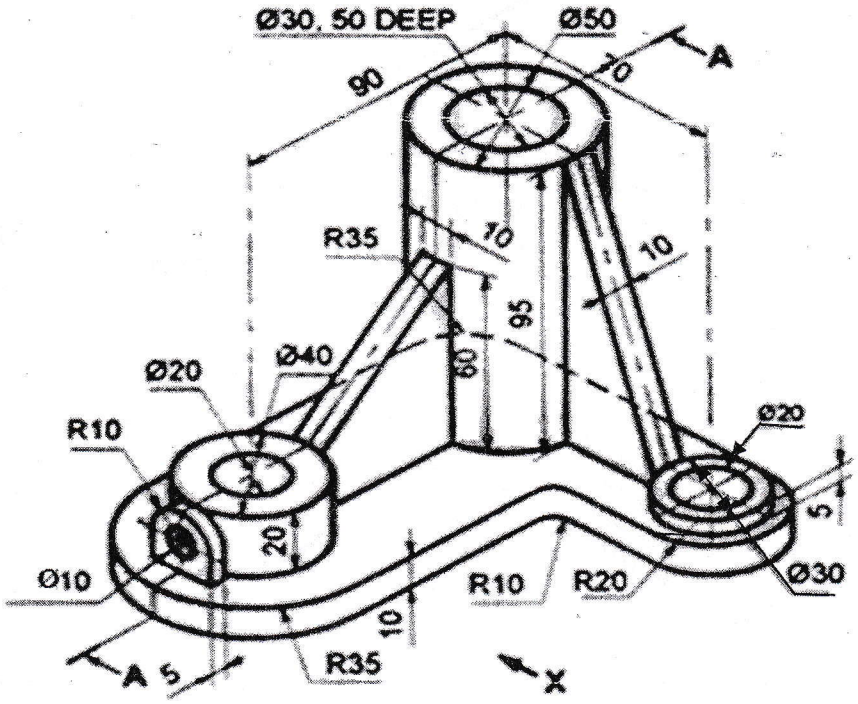
K. J. Somaiya Institute of Technology Sion, Mumbai-22
(Autonomous College Affiliated to University of Mumbai)

July- Aug ~~May-June~~ 2025
(B.Tech.) Program: Computer, EXTC, I.T and AI-DS Engineering Scheme III
Supplementary ~~Regular~~ Examination: FY Semester: II
Course Code: BSC204 and Course Name: Engineering Graphics
Date of Exam: ~~14-06-2025~~ 07-08-2025 Duration: 03 Hours Max. Marks: 60

Instructions:
(1) Attempt any **four** questions out of **six**.
(2) Assume suitable dimension, if necessary.
(3) Retain all construction lines.
(4) All dimensions are in mm.

		Max. Marks	CO	BT level
Q.1	Draw the following views – 1. Sectional front view (along A-A) looking from X direction 2. Top view 3. Left Hand Side View Show at least 10 dimensions. 	15	5	A
Q.2	A pentagonal pyramid of base sides 20 mm and slant length 55 mm rests on one of its corners in HP and the axis inclined at 30° to HP. It is tilted about the corner such that the opposite side to it is inclined at 40° to VP. Draw the projections of the pyramid with apex nearer to observer.	15	2	A

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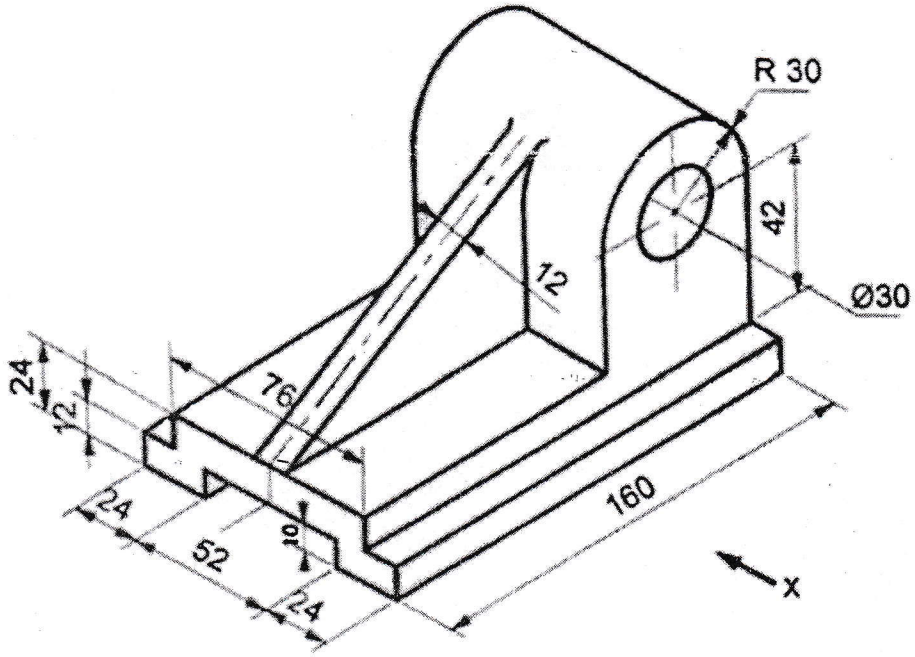
Q.3	A hexagonal pyramid of base edges 30 mm and axis height 50 mm rests on its base in HP with two base edges perpendicular to VP. It is cut by an auxiliary inclined plane 50° to HP and passing through a point 30 mm above the base. Draw the front view, sectional top view, true shape of section and development of the below retained portion of the pyramid.	15	3	A
Q.4	Draw the following views 1. Front view from x direction 2. Top view 3. Left hand side view (Show at least 10 dimensions) 	15	4	A
Q.5	a. A hexagonal prism of base edges 25 mm and height 65 mm has its base edge in VP and the rectangular face formed by this edge is inclined at 50° to VP. Draw the projections.	06	2	A

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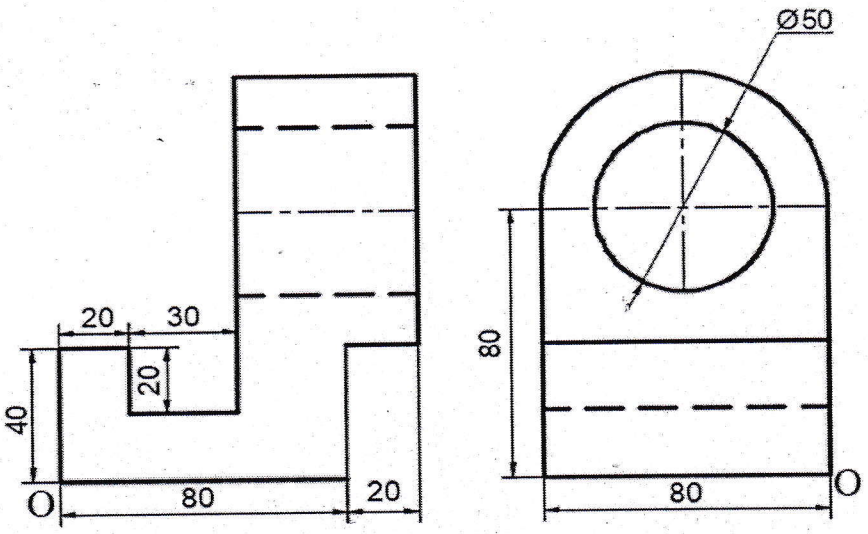
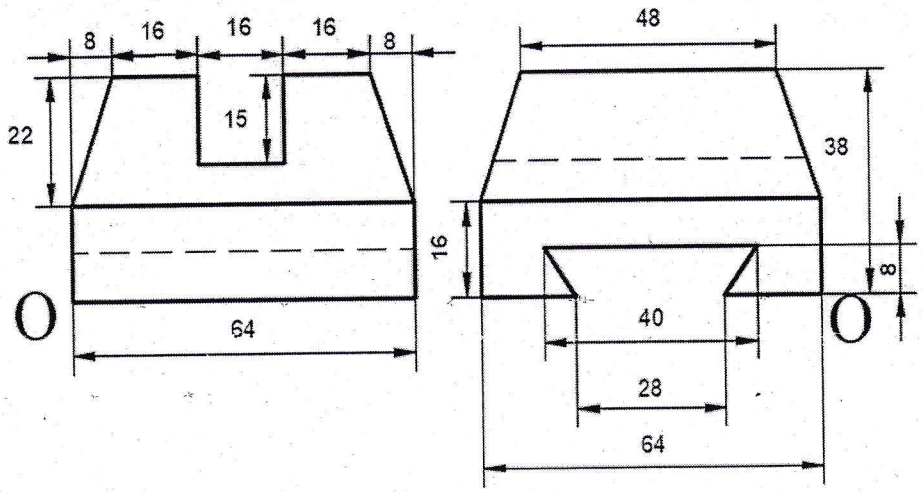
	b. For the given two views draw an isometric view. 	09	6	A
Q.6	a. A line AB 65 mm in length is inclined at 45° to HP and 30° to VP. The end point A is 12 mm above HP and 20 mm in front of VP. Draw the projections of the line if it is in first quadrant. Find inclinations of the front view and top view.	09	1	A
	b. For the given two views draw an isometric view. 	06	6	A

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