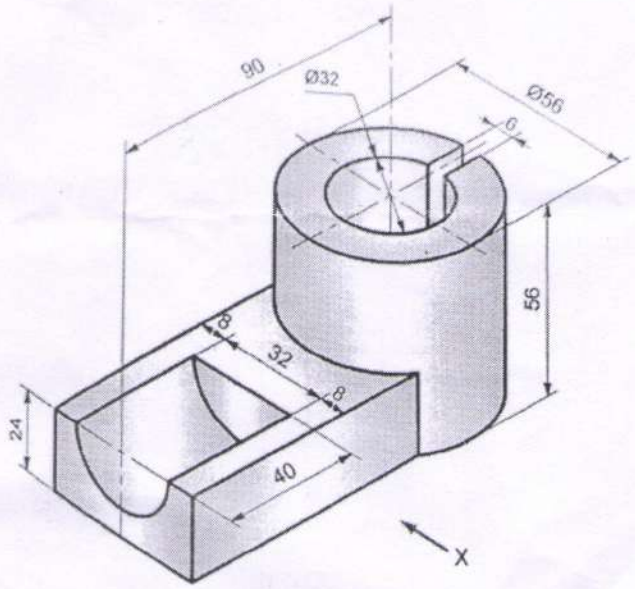
K. J. Somaiya Institute of Engineering and Information Technology, Sion, Mumbai-22
(Autonomous College Affiliated to University of Mumbai)

Subject Code: 1UBSC204 **Subject Name: Engineering Graphics** Date: 14/07/2022

April – May 2022
Program: FY B.Tech. All Branches
Examination: FY Semester: II
Course Code: 1UBSC204 and Course Name: Engineering Graphics

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 FV and TV of a line AB measures 50 mm and 60 mm respectively. The line AB is 70 mm long. The endpoint A is in first quadrant and equidistance at 20 mm from both the reference planes. Draw the projections. Find inclination of line with HP and VP.	10	CO1	A
b.	The pictorial view of a machine part is shown in following figure. Draw- i) Front view along x- direction ii) Top view iii) Insert at least 6 dimensions. 	10	CO4	A

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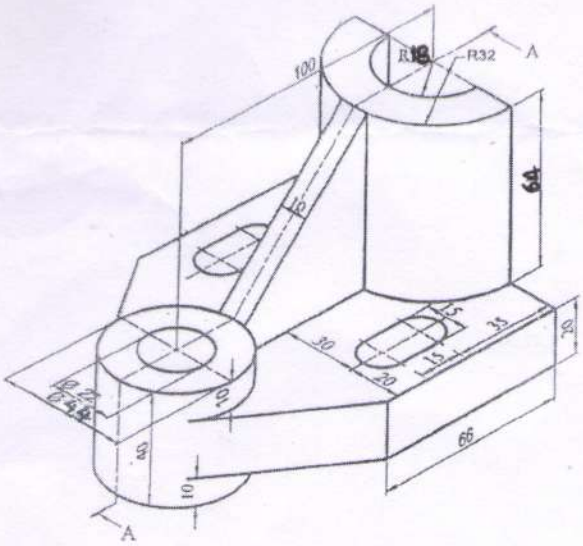
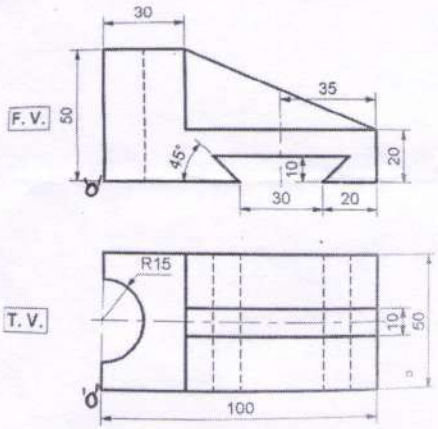
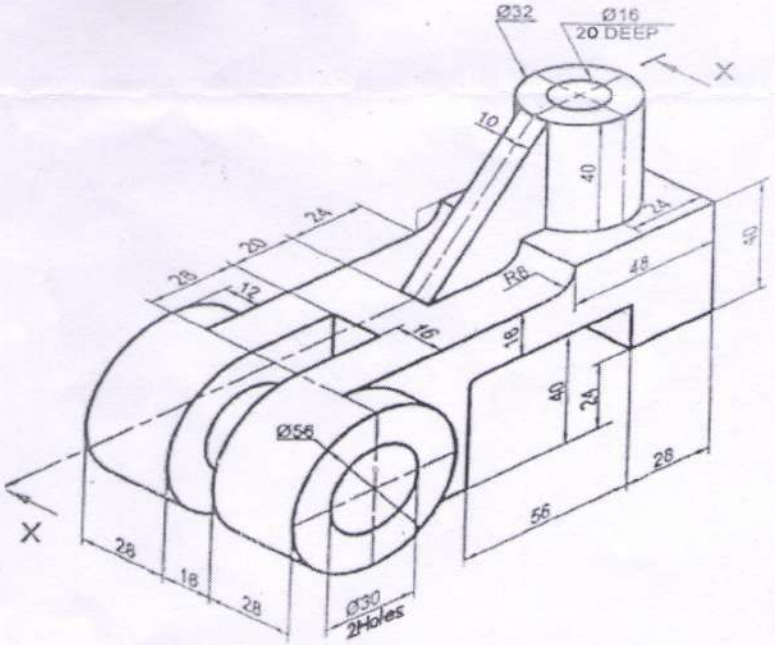
Q.2	**Attempt any TWO out of three:-**			
a.	Following figure shows the pictorial view of an object , draw- i) Sectional front view along section A-A ii) Top view iii) Left hand side view iv) Insert 10 major dimensions 	15	CO5	A
b.	Front view and top view of an object is shown in figure, draw an Isometric View. 	15	CO6	A
c.	A hexagonal pyramid edge of base 30 mm and height 70 mm rests on one of its slant triangular faces on VP. The base edge contained by face lying on VP is inclined at 30° to HP. Draw its projection	15	CO2	A

Q.3	**Attempt any ONE out of two:-**			
a.	Following figure shows the pictorial view of an object, draw- i) Sectional front view along section X-X ii) Top view iii) Left hand side view iv) Insert 10 major dimensions. 	20	CO5	A
b.	A Pentagonal prism of 30 mm base edge & 70 mm axis length is resting on HP on an edge of the base which is inclined at 30° to VP. Draw its projections if the rectangular sides face containing that edge is inclined at 30° to HP.	20	CO2	A

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