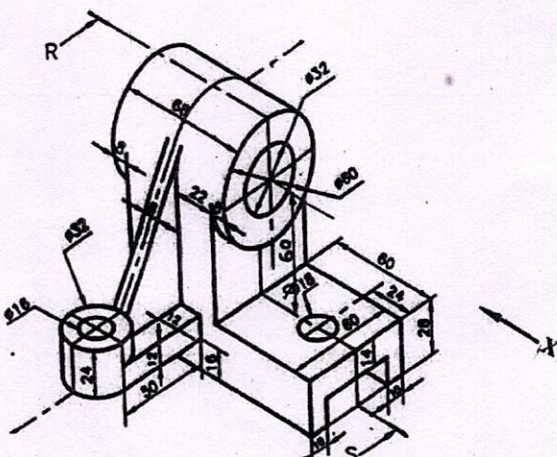**2015**
B.E., Second Semester
ESC-X04: Engineering Graphics
(Common with CSE, IT, BIO & MEC)

Time allowed: 3 Hours

Max. Marks: 50

NOTE: Attempt five questions in all, including Question No. I which is compulsory and selecting two questions from each Section.
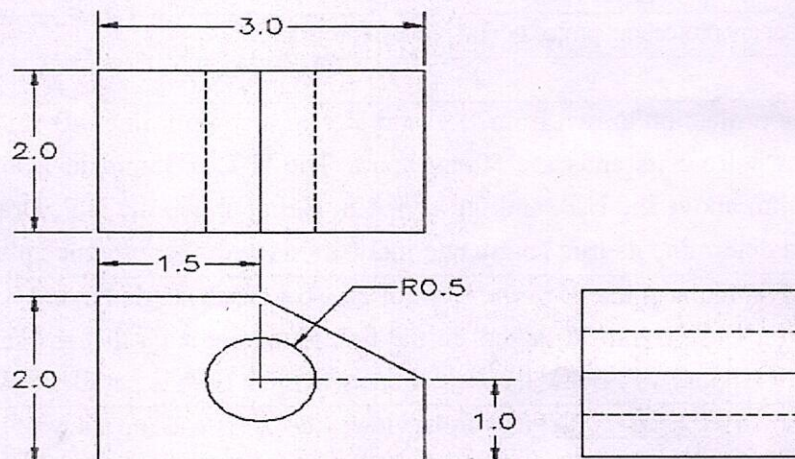
x-x-x

Q. No.		Marks
1 (a)	Draw a table showing various types of lines along with their respective applications?	2
(b)	Differentiate between First angle of projections and Third angle of projections?	2
(c)	Draw a table showing the various sizes of drawing sheets?	2
(d)	Construct a regular pentagon of 30 mm side by general method.	2
(e)	What are projection, projector and plane of projection?	2
	SECTION-A	
2	The projection drawn from H.T and V.T of a straight line AB are 80mm apart while those drawn from its ends are 50mm apart. The H.T is 35mm in front of the V.P, the V.T is 55mm above the H.P. and the end A is 10mm above the H.P. Draw the projections of AB and determine its true length and inclinations with the reference planes.	10
3	A Triangular plane is in the form of an isosceles triangle having base with 30 mm side and altitude of 40 mm. It is kept in the first Quadrant such that the surface is perpendicular to both HP and VP. Draw its projections when the base is parallel to VP.	10
4	Draw by **FREEHAND**, the front view, side view and top view of an object as shown in the figure	10

	SECTION-B	
5	A square prism of base side 35mm and axis length 65mm is resting on one of its rectangular faces on GP. The base nearer to PP is parallel to it and 15mm behind it. The station point is 50mm to the left of the axis of the prism, 55mm above the ground plane and 30mm in front of the picture plane. Draw the perspective view of the prism.	10
6	A pentagonal plane with a 30 mm side lies on the GP with an edge parallel to and 20 mm behind the PP. The station point is 50 mm in front of PP, 65 mm above GP and lies in a CP which is at a distance of 40 mm towards right of the centre of the object. Draw its perspective view.	10
7	Draw the isometric view of the drawing as shown in Figure.	10

x-x-x