ELIZADE UNIVERSITY, ILARA-MOKIN FACULTY OF ENGINEERING DEPARTMENT OF CIVIL AND ENVIRONMENTAL ENGINEERING

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COURSE CODE: GNE 201 SESSION/SEMESTER: FIRST SEMESTER/ 2019/2020

COURSE TITLE: ENGINEERING DRAWING LEVEL: 200L

TIME ALLOWED: 3 HOURS

INSTRUCTION: ATTEMPT QUESTION 1, 2 AND ANY OTHER 2 QUESTIONS

Question 1 (20 marks)

(a) The Isometric block (Figure Q1) is to be drawn and projected (15 Marks)

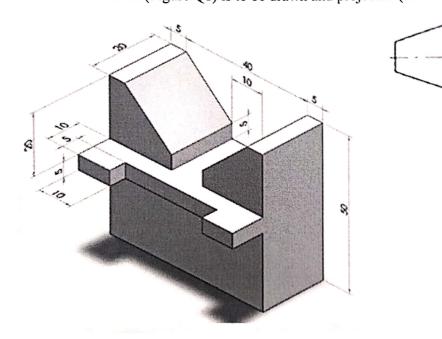


Figure Q1: Isometric block

(b) Explain the following terms in relation to AutoCAD (i) World Coordinate System (WCS) (ii) Mirror (iii) Scale (iv) Chamfer (v) Explode (5 marks)

Question 2 (20 marks)

- (a) A cone, 50 mm base diameter and 70 mm axis is standing on its base on HP. It cut by a section plane 450 inclined to HP through base end of end generator. Draw projections, sectional views, true shape of section and development of surfaces of remaining solid.

 (15 Marks)
- (b) Explain the following four different types of 3D models (i) Wireframe models(ii) Surface models (iii) Solids models (iv) Mesh Models (v) Extrude(5 marks)

Question 3 (10 marks)

(a)	Define the following methods of projection (i) Axonometric projection, (ii)	
	projection, (iii) Perspective projection, (iv) Orthographic projection	(8 marks)
(b)	List four differences between 1st and 3rd angle projections	(2 marks)
	Question 4 (10 marks)	
(Q4a)	Define Freehand sketching listing the four different forms of freehand sketching	
		(2 marks)
(b)	List and explain factors on which type of projection depends	(8 marks)
	Question 5 (10 marks)	
(Q5a)	List 10 software's used in engineering drawing	(5 marks)
(5b)	List the advantages of freehand sketching in engineering drawing	(5 marks)

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