



**ELIZADE UNIVERSITY**  
*Pragmatic Innovation for Development*

**FACULTY: ENGINEERING**  
**DEPARTMENT: CIVIL ENGINEERING**  
**FIRST SEMESTER EXAMINATION (MARCH 2017)**  
**2016/2017 ACADEMIC SESSION**

**Course Title: Engineering Drawing**

**Course Code: GNE 201**

**HOD'S SIGNATURE**

**Instructions:**

- 1) Attempt Questions 1 and any other three
- 2) Time Allowed: 3 hours
- 3) SEVERE PENALTIES APPLY FOR MISCONDUCT, CHEATING, POSSESSION OF UNAUTHORIZED MATERIALS DURING EXAM



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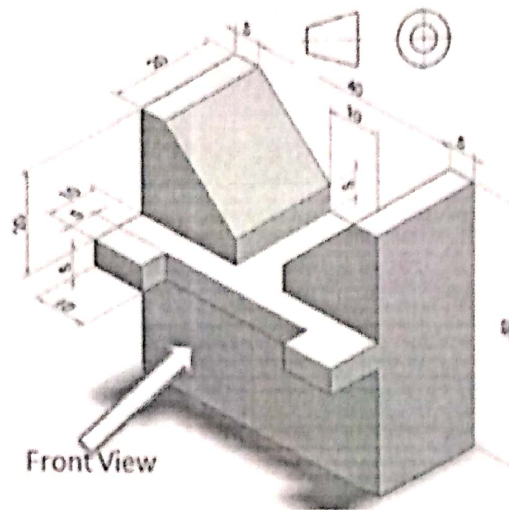
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**Units:** 2

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**Q1** The Isometric block below is to be drawn and projected



- (2a) List 10 softwares used in engineering drawing (5 marks)
- (b) List five differences between 1<sup>st</sup> and 3<sup>rd</sup> angle projections (5 marks)
- (3a) Explain the following four different types of 3D models:
- (i) Wireframe models
  - (ii) Surface models
  - (iii) Solids models
  - (iv) Mesh Models (4 marks)
- (b) List 3 advantages of 2D and 3D AutoCAD each (6 marks)
- (4a) Define orthographic projections itemizing the different types of views (5 marks)
- (b) List the advantages of freehand sketching in engineering drawing (5 marks)
- (5a) Define Freehand sketching listing the four different forms of freehand sketching (5 marks)
- (b) Explain the following terms in relation to AutoCAD:
- (i) World Coordinate System (WCS) (ii) Mirror (iii) Scale
  - (iv) Chamfer (v) Explode (vi) Extrude (5 marks)