



**MASINDE MULIRO UNIVERSITY OF  
SCIENCE AND TECHNOLOGY  
(MMUST)**

**MAIN CAMPUS**

**UNIVERSITY EXAMINATIONS  
2022/2023 ACADEMIC YEAR**

**FIRST YEAR FIRST SEMESTER EXAMINATIONS**

**FOR THE DEGREE  
OF  
BACHELOR OF SCIENCE IN CIVIL AND STRUCTURAL  
ENGINEERING**

**COURSE CODE: CSE 111**

**COURSE TITLE: ENGINEERING DRAWING**

**DATE: 6<sup>TH</sup> DECEMBER 2022**

**TIME: 8 – 11 A.M**

---

**INSTRUCTIONS:**

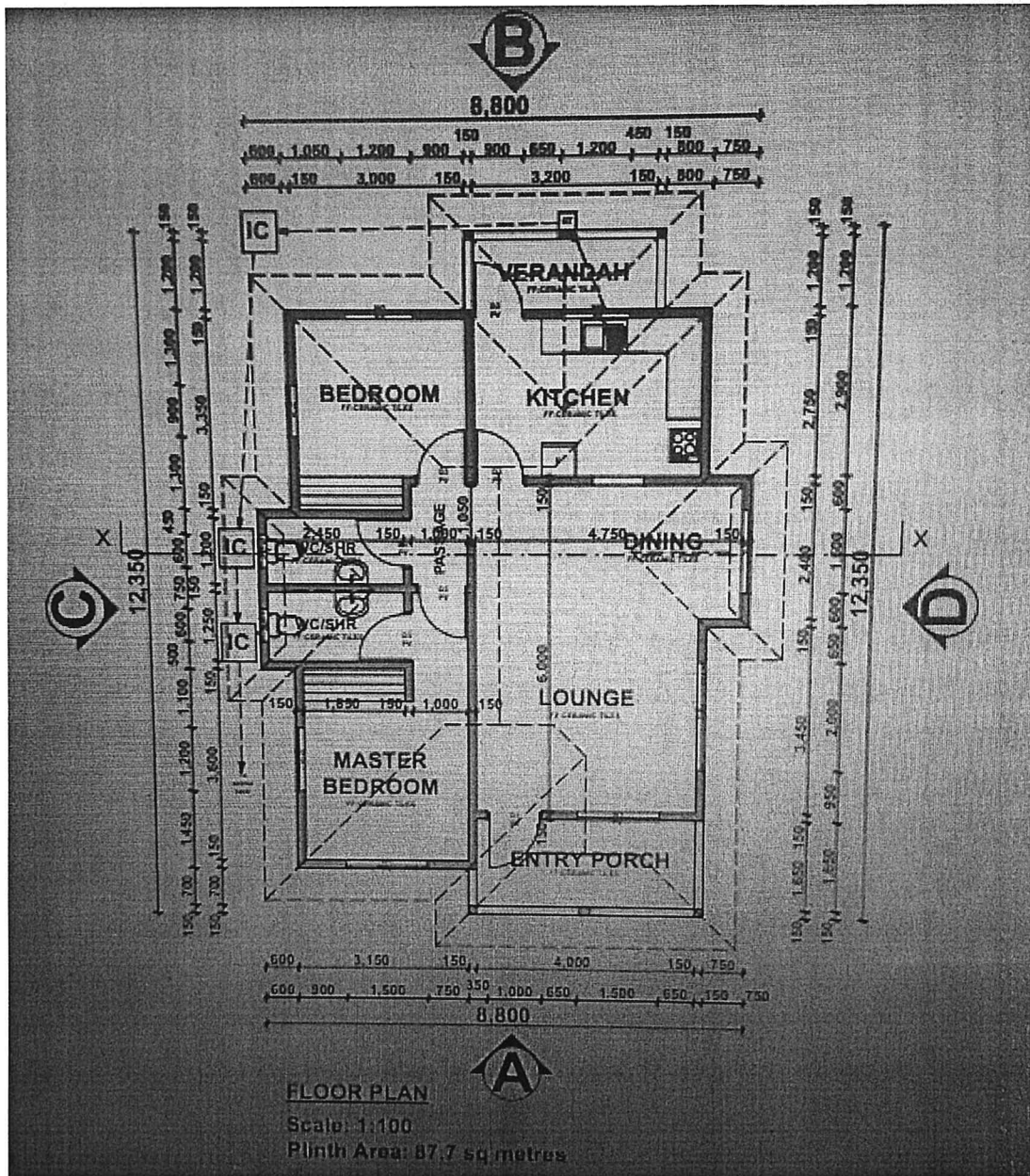
1. This paper contains **FOUR** questions
2. Answer question **ONE** and **any two**
3. Marks for each question are indicated in the parenthesis.
4. Examination duration is **3 Hours**

MMUST observes **ZERO** tolerance to examination cheating

This Paper Consists of 5 Printed Pages. Please Turn Over.

**QUESTION 1 (30 marks)**

- a) Using the floor plan below (**Figure Q1**), draw elevation **A**, **C** and **D** at scale 1:100 and the section **X-X** through the building at scale 1:50 (Roof angle 45 degrees) (**20 marks**).



**Figure: Q1**

**QUESTION 2 (10 marks)**

- b) Draw a perimeter wall fence between 3 columns using the following details ( stone wall 200mm thick, Wall height 2100mm, column sizes 300mm by 300mm, Column height 2400mm, Distance between columns 2700mm. Draw the following:
- a) The plan (scale 1:50)
  - b) The elevation (scale 1:50)
  - c) Section through the wall (scale 1:50)
- (10 marks)

**QUESTION 3 (10 marks)**

- a) Figure Q3 below shows the elevation of a block, redraw the figure at scale 1:100 and dimension it fully (5 marks)

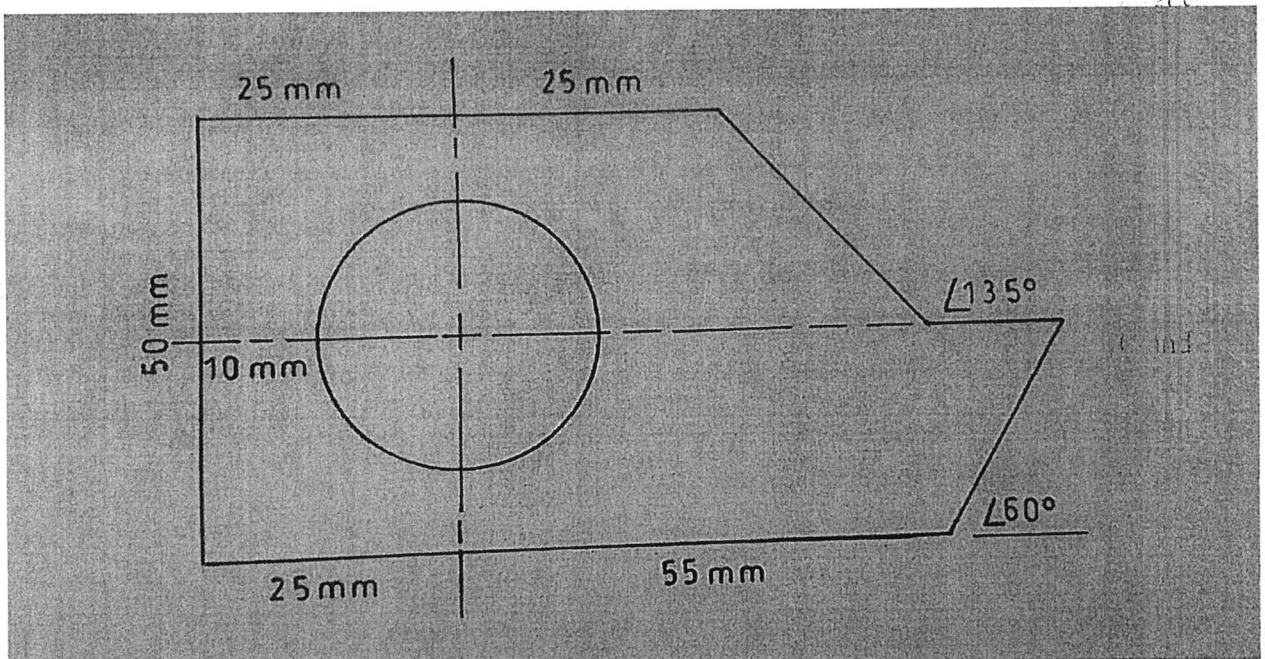
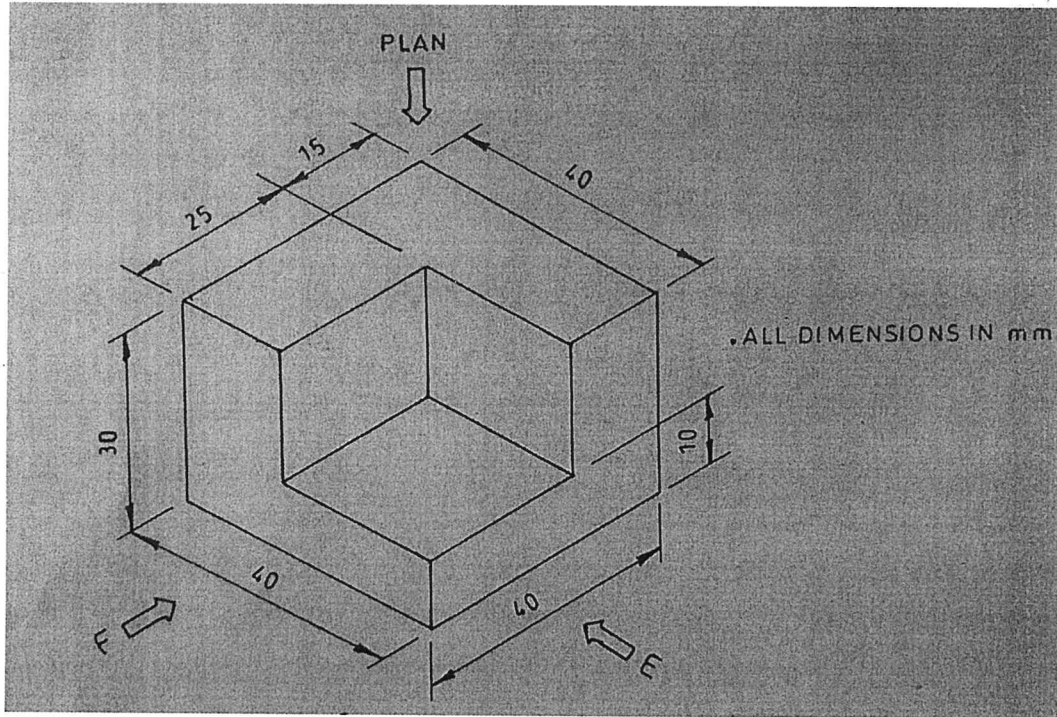


Figure: Q3

- b) Using a cube of 50mm in size, draw an isometric block drawing and project it to achieve a two-point perspective projection drawing using (5 marks).

**QUESTION 4 (10 marks)**

- a) The **figure Q4** below shows an isometric block. Using the views shown for the front, end and plan, draw the views in the first angle projection



**Figure: Q4**