



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

**MAIN CAMPUS**

**UNIVERSITY EXAMINATIONS 2023/2024 ACADEMIC YEAR**

**FIRST YEAR FIRST SEMESTER EXAMINATIONS**

**FOR THE DEGREE  
OF  
BACHELOR OF TECHNOLOGY IN BUILDING &  
CONSTRUCTION**

**COURSE CODE: BTB 111**

**COURSE TITLE: ENGINEERING DRAWING 1**

**DATE: 11<sup>TH</sup> DECEMBER 2023**

**TIME: 8 A.M – 11 A.M**

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**INSTRUCTIONS:**

1. This paper contains **FOUR** questions
2. **Question ONE (1)** is Compulsory
3. **Attempt a total of THREE** questions in this booklet.
4. Marks for each question are indicated in the parenthesis.

Examination duration is **2 Hours**

MMUST observes **ZERO** tolerance to examination cheating

This Paper Consists of 3 Printed Pages. Please Turn Over.

**Question 1** **COMPULSORY** **(30 marks)**

1. (a) Write freehand the following, using single stroke vertical (CAPITAL and lower-case) letters:

- (i) Alphabets (Upper-case & Lower-case) and Numerals 0 to 9 (h = 5 and 7 mm) (5 mks)
- (ii) PRACTICE MAKES A PERSON PERFECT (h = 3.5 and 5) (5 mks)
- (iii) BE A LEADER NOT A FOLLOWER (h = 5) (5 mks)
- (iv) 4. LETTERING SHOULD BE DONE FREEHAND WITH SPEED (h = 5) (5 mks)

(b) Construct a scale of 1:50 to read metres and decimetres and long enough to measure 6 m. Mark on it a distance of 5.5 m. (10 mks)

**Question 2** **(20 marks)**

Construct a pentagon of 50mm of side by:

(a) Construction method (10 mks)

(b) Inclined method (10 mks)

**Question 3** **(20 marks)**

Draw the projections of a cube of 35mm side, resting on one of its faces (bases) on HP., such that one of its vertical faces is parallel to and 10mm in front of V.P. as shown below:

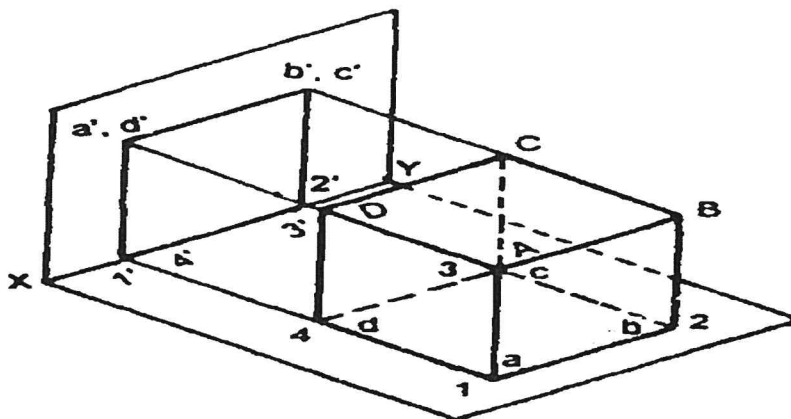


Fig (3)

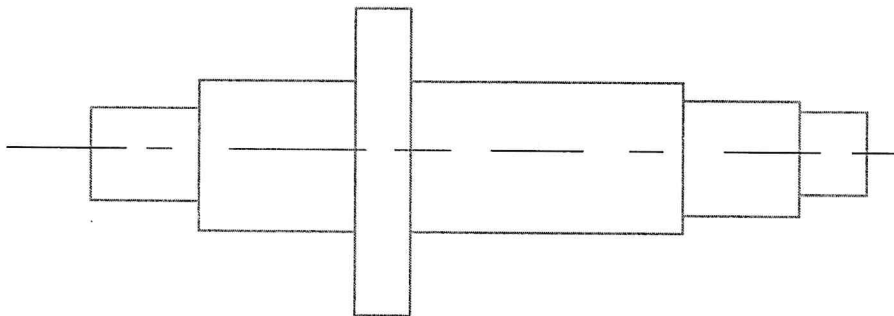
**Question 4** **(20 marks)**

(a) Draw drawing sheet and its general features (10 mks)

(a) Figure 4 (a) how combined dimensioning of object. Draw and fill in the dimension values.

From left to the dimension re follow: 20mm, 25mm, 10mm, 50mm 20mm 15mm (10 mks)

Fig (4)



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