



MASINDE MULIRO UNIVERSITY OF
SCIENCE AND TECHNOLOGY
(MMUST)

MAIN CAMPUS

UNIVERSITY SUPPLEMENTARY EXAMINATIONS
2021/2022 ACADEMIC YEAR

SECOND YEAR SECOND SEMESTER EXAMINATIONS
FOR THE DEGREE OF
BACHELOR OF TECHNOLOGY BUILDING CONSTRUCTION

COURSE CODE: BTB 252

COURSE TITLE: WORKSHOP TECHNOLOGY

DATE: 4TH AUGUST 2022

TIME: 2 hours

INSTRUCTIONS:

1. This paper contains FIVE questions
2. Answer question ONE (compulsory) and any other THREE questions
3. Examination duration is **2 Hours**

MMUST observes ZERO tolerance to examination cheating

This Paper Consists of 2 Printed Pages. Please Turn Over.

Question 1

- i). briefly explain the meaning of the term “Setting out of building” (2 marks)
- ii). Mention any *three* hand tools you would need for the setting out process (3 marks)
- iii). Explain in step order how to set out building, and use illustrated sketches to back up your explanation in i) above. (9 marks)

Question 2.

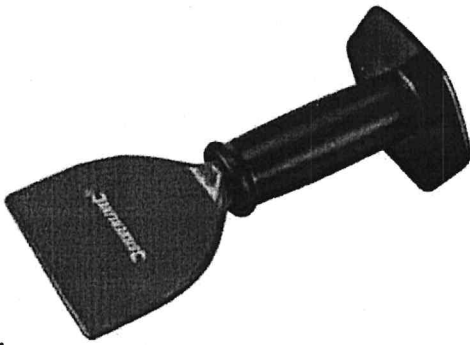
- i). what do you understand by the term “Cement mortars”? (1 mark)
- ii). State the use of Cement mortar (1 mark)
- iii). what is bedding in construction? (1 mark)
- iv). what are the uses of gravel bedding? (1mark)
- v). State the meaning of gravel? (1mark)
- vi). You are excavating a swimming pool pit that is 60 m long, 30 m wide, 2 m deep at the shallow end and 9 m at the deep end.
 - a). Draw to illustrate the possible shape of this swimming pool. (3 marks)
 - b) Calculate the excavation volume. (3 marks)

Question 3. (12 marks)

Given the following building construction tools, state their:

- i). name.
- ii). primary use
- iii). safety rule to observe when in use.

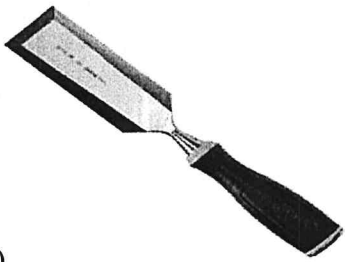
a).



b).



c).



d)



Question 4.

- i). State any two advantages of using concrete blocks as house wall construction material. (2 marks)
- ii). Name the four processes involved in the manufacture of the concrete blocks. (4 marks)
- iii). Mention Benefits of Interlocking Masonry (6 marks)

Question 5.

- i). what do you understand by 'Dressing of stone?' (1 mark)
- ii). Mention the three reasons for stone dressing. (3 marks)
- iii). State any eight methods or types of dressing of Stones. (8 marks)