



# MASINDE MULIRO UNIVERSITY OF SCIENCE AND TECHNOLOGY (MMUST)

MAIN CAMPUS

UNIVERSITY EXAMINATIONS  
2020/2021 ACADEMIC YEAR

FIRST YEAR SEMESTER ONE  
MAIN EXAMINATIONS

FOR THE DEGREE  
OF  
BACHELOR OF TECHNOLOGY IN BUILDING CONSTRUCTION

**COURSE CODE:** BTB 103

**COURSE TITLE:** INTRODUCTION TO BUILDING TECHNOLOGY

**DATE: FRIDAY 29TH JANUARY 2021 TIME: 3.00 – 5.00 PM**

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**INSTRUCTIONS:**

1. This paper contains FIVE questions
2. QUESTION ONE IS COMPULSORY
3. Attempt any other Three questions
4. Marks for each question are indicated in the parenthesis.

Examination duration is **2 Hour**

MMUST observes ZERO tolerance to examination cheating

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

**QUESTIONS (Answer question 1 and any other three questions)**

1. (a) From a historical perspective discuss the development of engineering and technology. *(10 marks)*  
(b) During the engineering design stage outline the kind of information and knowledge required. *(5 marks)*  
(c) Explain the application of building code and other standards in the building industry. *(5 marks)*  
(d) What is the significant of a site layout plan? *(5 marks)*
  
2. (a) List any TEN commonly used building materials in Kenya citing their main applications. *(10 marks)*  
(b) What is the importance of hoarding a site? *(5 marks)*
  
3. (a) Outline the main structural elements applicable in buildings? *(5 marks)*  
(b) State the major players forming a building team. Explain the role played by each. *(10 marks)*
  
4. (a) Explain the purpose of formwork in buildings and state the requirements for good formwork. *(10 marks)*  
(b) Discuss the hydration process of cement after its contact with water. *(5 marks)*
  
5. (a) Differentiate between labour-based construction and mechanized construction. State the advantages of each. *(6 marks)*  
(b) What are admixtures? Give examples of admixtures applied in concrete. *(5 marks)*  
(c) Describe the requirements of a good engineering technical report. *(4 marks)*

**END**