



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

MAIN CAMPUS

**UNIVERSITY EXAMINATIONS
2019/2020 ACADEMIC YEAR**

FIRST YEAR SEMESTER ONE EXAMINATIONS

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

COURSE CODE: BTB 103

COURSE TITLE: INTRODUCTION TO BUILDING TECHNOLOGY

DATE: FRIDAY 24TH JANUARY 2020 TIME: 3.00 – 5.00 PM

INSTRUCTIONS:

1. This paper contains FOUR questions
2. QUESTION ONE IS COMPULSORY
3. Attempt any other Two questions
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 2 Printed Pages. Please Turn Over.

SECTION A: Answer question 1 (Mandatory)

1. (a) Discuss how engineering and technology development has evolved from a historical perspective. *(10 marks)*
- (b) State and explain the main engineering features to be found in a building? *(6 marks)*
- (c) Explain the importance of the building code and other standards applied in the building industry? *(4 marks)*
- (d) List the key players who make a building team. Explain the role of each. *(10 marks)*

SECTION B: Answer any TWO questions from this section.

2. (a) Discuss the objectives of plastering a building wall. What are the requirements of a good plaster? *(10 marks)*
- (b) Sketch any FIVE types of construction plants. Explain also their applications. *(10 marks)*
3. (a) State the purpose of formwork in buildings? What are the requirements of a good formwork? *(10 marks)*
- (b) What are the functions of the various ingredients found in concrete? *(8 marks)*
- (c) Explain the term “precast concrete”. *(2 marks)*
4. (a) Describe the requirements of a good engineering technical report. *(6 marks)*
- (b) State FIVE types of cements used in the construction industry. Explain their use. *(5 marks)*
- (c) In the construction of masonry walling three types of bonds are commonly used. Explain these different bonds giving the benefits of each. *(9 marks)*

END