



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

**UNIVERSITY EXAMINATIONS
2022/2023
ACADEMIC YEAR**

THIRD YEAR SEMESTER ONE EXAMINATIONS

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

COURSE CODE: BTB 363

COURSE TITLE: SITE MANAGEMENT

DATE: 15TH DECEMBER 2022

TIME: 8 – 10 A.M

INSTRUCTIONS:

1. This paper consists of **four** questions. Answer Question 1 and **any other two** questions.
2. All marks are indicated on the parenthesis.
3. Provide neat sketches and diagrams where required.

MMUST observes **ZERO** tolerance to examination cheating

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

SECTION A: ANSWER QUESTION 1



Question I (30 marks)

- (a) In the building industry, as in any other form of business, planning is very significant. Discuss the importance of planning in a construction project citing the benefits accrued. (10 marks)
- (b) Outline in detail the project life cycle giving the activities in each step of the cycle. (10 marks)
- (c) What is site layout planning? Explain some of the problems experienced for lack of site planning. (10 marks)

SECTION B: ANSWER ANY OTHER TWO QUESTIONS

Question 2 (20 marks)

- (a) Discuss the role of a site manager in a construction site. (5 marks)
- (b) What are the client's obligations in a construction project? (5 marks)
- (c) Explain the significance of site record keeping. Enumerate examples of the records required to be kept on a construction project. (10 marks)

Question 3 (20 marks)

- (a) In construction projects the application of organization structures is very critical. Using neat diagrams outline the various organization structures applied in construction projects stating the advantages of each. (10 marks)
- (b) State the "Preliminary Works" required on a site before commencement of a construction project. (10 marks)

Question 4 (20 marks)

- (a) What is "Total Quality Management" as applied in construction projects? (5 marks)
- (b) Explain the significance of a construction schedule in civil engineering projects. (5 marks)
- (c) As a Project Manager for the proposed Engineering and TVET Complex at MMUST you are required to prepare a construction schedule for the planned project. The details of the project are given below:
- Projected construction period = 156 weeks
 - Number of Floors = 5no.
 - Car Park and Civil Works included in the project
 - Include Sub-contractors works – Electrical, Mechanical and Lift installation.

Prepare a construction schedule using a Gantt chart. Make any other suitable assumptions. (10 marks)