



(University of Choice)

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

UNIVERSITY EXAMINATIONS

2021/2022 ACADEMIC YEAR

2ND YEAR SEMESTER TWO MAIN EXAMINATIONS

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

COURSE CODE: BTB 204

COURSE TITLE: BUILDING TECHNOLOGY II

DATE: TUESDAY 26TH APRIL 2022 TIME: 12:00 – 2:00 PM

INSTRUCTIONS:

1. This paper contains FOUR questions
2. Answer question ONE (compulsory) and any other TWO question

QUESTION ONE (COMPULSORY -40MKS)

- a) Give an account of openings in walls. (6mks)
- b) With aid of a neat sketch state the components of the window openings (6mks)
- c) Define what is an Arch and state at least six of its parts (8mks)
- d) Explain the following as far as the use of scaffolding is concerned? (5mks)
 - i) Safety
 - ii) Access
- e) State at least five types of scaffolding used in construction. (5mks)
- f) What is a ladder in construction? With aid of a neat sketch, describe a twin step ladder (5mks)
- g) What is formwork in concrete works? State materials used in the formwork (5mks)

Attempt ANY 2 Questions from this section (30MKS)

QUESTION TWO

- a) Give a brief account of classification of formwork based on structural components (8mks)
- b) State requirements for good formwork (7mks)

QUESTION THREE

- a) What is structural frame in construction? (3mks)
- b) Explain the following in relation to methods of construction in structural timber frames
 - Planning (4mks)
 - Stick build (4mks)
 - External cladding (4mks)

QUESTION FOUR

With aid of a neat sketch explain at least five components of a stair. (15mks)