

(University of Choice)

MASINDE MULIRO UNIVERSITY OF SCIENCE AND TECHNOLOGY (MMUST)

MAIN CAMPUS

UNIVERSITY EXAMINATIONS 2021/2022 ACADEMIC YEAR

SECOND YEAR SECOND SEMESTER EXAMINATIONS

FOR THE

DIPLOMA

IN

CIVIL ENGINEERING / BUILDING CONSTRUCTION

COURSE CODE:

DCE 074/DBC 074

COURSE TITLE:

BUILDING TECHNOLOGY

DATE: THURSDAY 28TH APRIL 2022 TIME: 8.00AM - 10.00AM

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.
- 5. Examination duration is 2 Hours

MMUST observes ZERO tolerance to examination cheating

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

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QUESTION ONE (COMPULSORY) - 30 MARKS

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a) State four functions of a window	
a) State four functions of a windowb) Differentiate between English and Flemish bond as used in building construction	(4 Marks)
 c) Differentiate between dump proof membrane and dump proof course d) Discuss five parties of a building team e) State three functions of mortar f) State four functions of a fireplace g) Explain three types of door frames 	(4 Marks) (10 Marks) (3 Marks) (2 Marks) (3 Marks)
QUESTION TWO – 20 MARKS a) Define the term timbering	(2 Marks) (9 Marks)
 a) Define the term timbering b) State and explain three methods of leveling a building site c) Describe the following in the building process: i. Site clearing ii. Site investigation iii. Setting out of the building 	(9 Marks)
QUESTION THREE – 20 MARKS	
a) With the aid of sketches, describe the following methods of setting out of bu	(16 Marks)
 i. Builders square ii. 3:4:5 method b) Explain four reasons of fencing a construction site 	(4 Marks)
QUESTION FOUR – 20 MARKS	(2 Marks)
 a) Define the term foundation b) Explain two functions of a foundation c) With the aid of sketches, describe following types of foundations i. Pad foundation ii. Stepped foundation 	(2 Marks)
iii. Raft foundation iv. Strip foundation	(16 Marks)