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MASINDE MULIRO UNIVERSITY OF SCIENCE AND TECHNOLOGY (MMUST)

MAIN CAMPUS

UNIVERSITRY EXAMINATIONS 2021/2022 ACADEMIC YEAR

THIRD YEAR SECOND SEMESTER EXAMINATIONS

FOR THE DEGREE
OF
BACHELOR OF SCIENCE IN CIVIL AND STRUCTURAL
ENGINEERING

COURSE CODE: BTB 463

COURSE TITLE: BUILDING ECONOMICS

DATE: 6TH DECEMBER 2022 TIME: 8 - 10 A.M

INSTRUCTIONS:

- 1. This paper contains Five Questions
- 2. Answer question One and any other two.
- 3. Marks for each question are indicated in the parenthesis.
- 4. Examination duration is 2 Hours

MMUST observes ZERO tolerance to examination cheating

This Paper Consists of 3 Printed Pages, Please Turn Over.

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QUESTION ONE (COMPULSORY -40MKS)

a)	The concept of cost control is critical in building economics.	Give an account as to
	why the Quantity Surveyor is engaged at the design stage.	(6marks)

b)	Explain	the	following	as	far	as	the	economic	context	of	building	economics	is
	concern	ed.											

() i)	Building is expensive	(3marks)
ii)	Shelter	(3marks)
iii)	Initial costs	(3marks)

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(3marks)

(3marks)

(3marks)

(3marks)

(3marks)

Qt 119	i)	Competition	(4mks)
316	ii)	Economics of scale	(4mks)
	iii)	Use available of technology	(4mks)

d) Discuss whole unit method of estimation. (3mks)

() | e) Explain the importance of building economics in National economy. (5mks)

f) Give a brief account on the sources of financing construction projects (5mks)

Attempt ANY 2 Questions from this section (30MKS)

QUESTION TWO

a) Discuss Religion, Technology and Culture in the context of economic considerations during the design stage. (9mks)

b) Distinguish between fixed-rate and flexible-rate mortgages. (6mks)

QUESTION THREE

Discuss the five considerations while carrying out estimation (15mks)

QUESTION FOUR

a) Give brief account on the following;

-Monetary benefits of the building (4mks)
-Non-monetary benefits of the building (4mks)

b) Outline the process of economic analysis (7mks)

QUESTION FIVE

a) Discuss in details giving illustrations on two strategies to address prolonged period of construction as way of minimizing initial costs of the project. (6mks)

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b) Give a brief description of the following

i)	Operational costs	(3mks)
ii)	Utilities	(3mks)
iii)	Maintenance costs	(amks)

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