



MASINDE MULIRO UNIVERSITY OF SCIENCE AND TECHNOLOGY (MMUST)

MAIN CAMPUS

UNIVERSITY REGULAR EXAMINATIONS 2021/2022 ACADEMIC YEAR

FOURTH YEAR FIRST SEMESTER EXAMINATIONS

FOR THE DEGREE OF BACHELOR OF TECHNOLOGY EDUCATION IN BUILDING AND CIVIL ENGINEERING

COURSE CODE: TEB 463

COURSE TITLE: QUANTITY SURVEYING I

DATE: WEDNESDAY 27TH APRIL 2022 TIME: 3.00 - 5.00 PM

INSTRUCTIONS:

- 1. This paper contains **FIVE** questions.
- 2. Answer Question ONE and any TWO Questions.
- 3. Marks for each question are indicated in the parenthesis.
- 4. State clearly any engineering assumptions where necessary.
- 5. Examination duration is 2 Hours.

MMUST observes ZERO tolerance to examination cheating

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

TEB 463: QUANTITY SURVEYING I

(6 marks)

QUESTION ONE

	the state of the s				
8	Define the term Quantity Surveying	(2 marks)			
ŀ	Outline any FOUR roles of a quantity surveyor	(4 marks)			
C	Explain the following contract documents used in civil engineering construction				
	(i) Defects liability period	(2 marks)			
	(ii) Variations	(2 marks)			
	(iii) Bond	(2 marks)			
C	d) Outline any FOUR advantages of unit cost contract in quantity survey	(4 marks)			
e	e) Outline any FOUR factors to consider while taking the decision to tender	(4 marks)			
f	Outline any Four qualities of a good quantity surveyor	(2 marks)			
٤	g) Invitation to tender usually follows the design stage in tendering process. Identify an				
	explain any THREE documents that may accompany an invitation to	tender notice or			
	advert	(3 marks)			
ŀ	n) Outline any THREE types of specifications	(3 marks)			
i) Explain the term clarification as used in tendering	(2 marks)			
	QUESTION TWO	(0 1)			
	Explain any FOUR reasons why specifications are important in quantity survey (8 marks)				
ł	b) In response to an invitation to tender, invited tenderers will submit their tenders to the				
	tendering organization for subsequent evaluation and award. Identify any THREE				
	documents that may be submitted to the organization explaining the roles				
	document	(6 marks)			
C	e) Discuss any THRE types of construction costs in quantity survey	(6 marks)			
QUESTION THREE					
	a) Explain the significance of the letter of acceptance offered by the client	(2 marks)			
	b) Differentiate between the following types of tenders;	(2 marks)			
	(i). Open tendering and selective tendering	(2 marks)			
	(ii). Negotiated tendering and package deal tendering	(2 marks)			
	c) Explain any FOUR factors affecting the cost of civil engineering project	,			
	d) Explain any THREE types of data required to approximate the cost of a reinforced				
	a) Explain and Times of the total required to approximate the cost of a	(6 1)			

QUESTION FOUR

a) Identify any THREE standard terms that may be contained under the general conditions of contract (3 marks)

concrete beam

- b) Identify any FOUR Technical specifications that may be contained in the Bill of quantities for a three story building foundation (4 marks)
- c) Differentiate between the following types of contracts as applied in construction management
 - i. Lump sum construction contract and Unit price construction contract (4 marks)
 - ii. Cost Plus construction contract and Target Cost construction contract (4 marks)
- d) Explain any FIVE roles of an engineer in administration of contracts (5 marks)

QUESTION FIVE

a)	Define Bil	l of Quantities as applied in quantity survey	(2 marks)	
b)	Define the following terms used in preparation of Bill of Quantities:			
	i.	Taking off	(2 marks)	
	ii.	Squaring the dimensions	(2 marks)	
	iii.	Abstracting	(2 marks)	
	iv.	Billing	(2 marks)	
c)	Outline an	y FOUR components of a Bill of Quantities	(4 marks)	
d)		ne role of completion certificate in contract administration	(3 marks)	
e)		ny THREE causes of conflict in contract between the client	and contractor in	
/	during cor		(3 marks)	