

MURANG'A UNIVERSITY OF TECHNOLOGY

SCHOOL OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF BUILDING AND CIVIL

UNIVERSITY ORDINARY EXAMINATION

2023/2024 ACADEMIC YEAR

FIRST YEAR SECOND SEMESTER EXAMINATION FOR DIPLOMA IN CIVIL ENGINEERING

ENG/OS/CET/CC/06/6/A, CON/05/BUT/CR/11/6: MEASUREMENTS FOR CIVIL ENGINEERING WORKS

DURATION: 2 HOURS

INSTRUCTIONS TO CANDIDATES:

- 1. Answer Question one and any other two questions.
- 2. Mobile phones are not allowed in the examination room.
- 3. You are not allowed to write on this examination question paper.

SECTION A: ANSWER ALL QUESTIONS IN THIS SECTION QUESTION ONE (40 marks)

Take off for the substructure workers shown in drawing no.01. up to damp proof level. Use SMM. (40 marks)

SECTION TWO: ANSWER ANY TWO QUESTIONS

QUESTION TWO

a.	Hig	hlight the functions of the following quantity surveyor(s)	(10 marks)
	i.	Contractor Quantity surveyor	
	ii.	Client quantity surveyor	
b.	Explain the following terms as used in surveying		
	i.	Valuation	
	ii.	Variation	
	iii.	Deemed to be included	(6 marks)
c.	Dra	w dimension paper stating the function of each part	(6 marks)
d.	Using a well-illustrated sketches differentiate between prime cost and provisional sum		
			(8 marks)
	QUESTION THREE		
	a)	Using illustrations describe the following terms	
		i. Grouping of items	
		ii. Grouping of description	
		iii. Stroking	
		iv. Dotting on	
		v. NIL	(15 marks)
	b)	Describe the procedure of preparing a bill of quantities	(7 marks)
	c) Outline the functions of bill of quantities		(8 marks)
	QUESTION FOUR		
		a) Explain four essentials of a valid contract	(8 marks)
		b) Differentiate between tendering and contracts	(4 marks)
		c) Outline the procedure/steps followed during tendering	(6 marks)
		d) Discuss the following types of contractors	
		i) Lump sum contract	
		ii) Cost plus fix fee contract	(4 marks)
		e) Describe any four contract document.	(8 marks)