

## **MACHAKOS UNIVERSITY**

University Examinations for 2021/2022 Academic Year SCHOOL OF ENGINEERING AND TECHNOLOGY DEPARTMENT OF BUILDING & CIVIL ENGINEERING FIRST YEAR SECOND TERM EXAMINATION FOR DIPLOMA IN BUILDING TECHNOLOGY

2705&7 / 105 BC: GENERAL BUILDING CONSTRUCTION I

DATE: 1/4/2022 TIME: 11.30-2.30 PM

**DIPLOMA IN CIVIL ENGINEERING** 

## **INSTRUCTIONS**

- This paper consists of **FIVE** questions.
- Answer **ALL** questions.
- All questions carry equal marks.
- *Maximum marks for each part of the question are as shown.*

1.

1.			
	a)	Explain Four stages in the building process.	(8 marks)
	b)	Outline the evolution of the built environment.	(6 marks)
	c)	Describe Four construction documents used in the building process.	(6 marks)
2.			
	a)	State <b>Six</b> reasons for site investigation.	(6 marks)
	b)	Explain Three activities carried out during site investigation.	(6 marks)
	c)	Outline the procedure of carrying out site investigation on a construction site.	
			(8 marks)

3.

- a) Illustrate **Three** methods of reducing levels on a construction site. (6 marks)
- b) State **Four** tools and equipment used in levelling a site, giving one function of each equipment. (6 marks)

	C)	State 1 wo roles of each of the following members of a construction team:	
		i) Client	
		ii) Architect	
		iii) Quantity Surveyor	
		iv) Site Supervisor	(8 marks)
4.			
	a)	Explain the term "Setting out" as used in construction.	(2 marks)
	b)	Illustrate <b>Three</b> methods of setting out a building on a construction site.	(9 marks)
	c)	Outline the procedure of setting out a rectangular building.	(9 marks)
5.			
	a)	Illustrate Four building code requirements for strip foundations.	(8 marks)
	b)	Sketch and label a pictorial view of the timbering provided to trenches in	firm soils.
			(12 marks)