

# **MACHAKOS UNIVERSITY**

University Examinations for 2021/2022 Academic Year

#### DIRECTORATE OF TVET

## SECOND YEAR FIRST TERM EXAMINATION FOR

### **CERTIFICATE IN BUILDING TECHNOLOGY**

# CERTIFICATE IN CIVIL ENGINEERING

#### **BUILDING SERIVES**

DATE: 22/7/2022 TIME: 11:30 – 2:30 PM

### **INSTRUCTIONS**

- This paper consists of **Five** questions.
- Answer All questions
- Maximum marks for each part of the question are as shown.
- 1. a) Define the term welding (2 marks) (4 marks) Explain **TWO** types of welding. b) Describe **FOUR** methods through which welding is done. (8 c) marks) d) Give **THREE** advantages and disadvantages of welding. (6 marks) 2. Describe **TWO** methods used to supply cold water in a building. (4
- marks)
  - b) State and explain the functions of **FIVE** parts of an unvented hot water systems.

(10 marks)

- c) Outline **THREE** types of hot and cold water system. (6 marks)
- 3. a) State **FOUR** materials/components used in hot and cold water Supply systems.

(4 marks)

	b)	Differentiate between soil appliances and waste appliances.	(4
marks)	)		
	c)	With the aid of a diagram, sketch and describe an indirect cold water supp	oly system.
			(6 marks)
	d)	Explain THREE types of hot water supply systems.	(6
marks)	)		
4.	a)	Define the term fire	(2
	marks)		
	b)	Explain THREE classifications of fire giving the type of extinguishers us	sed in each
		case.	(6 marks)
	c)	Describe FOUR types of equipment used in firefighting.	(8 marks)
	d)	Describe FOUR safety regulations observed when fighting and handling f	ire.
			(4 marks)
5.	a)	Describe THREE types of drainage systems.	(6 marks)
	b)	Define TWO terms used in drainage systems.	(4
marks)	)		
	c)	Explain FIVE main stages of sewage treatment.	(10
marks)	)		