

# **MACHAKOS UNIVERSITY**

University Examinations for 2021/2022 Academic Year

## DIRECTORATE OF TVET

#### SECOND YEAR FIRST TERM EXAMINATION FOR

## **CERTIFICATE IN BUILDING TECHNOLOGY**

### **GENERAL BUILDING CONSTRUCTION II**

#### DATE: 25/7/2022

TIME: 8:30 – 11:30 AM

#### **INSTRUCTIONS**

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

# **QUESTION ONE**

a)	List two materials used for making window frames	(2 marks)
b)	With the aid of a labelled sketch, draw a standard wood casement with	indow with one fixed
	light, casement sash, one vent light	(8 marks)
c)	State four functions of a door	(4 marks)
d)	Sketch and draw a wooden door frame	(6 marks)
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#### **QUESTION TWO**

Exam	nination l	rregularity is punishable by expulsion	Page 1 of 2
b)	State four functional requirements of a staircase		(4 marks)
	viii.	Waist	
	vii.	String	
	vi.	Landing	
	v.	Riser	
	iv.	Tread	
	iii.	Hand rail	
	ii.	Baluster	
	i.	Newel post	
a)	Sketch timber a staircase to include the following details (10 m		

c)	With the aid of sketches, describe three types of staircases	(6 marks)
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# **QUESTION THREE**

a)	i)	define the term roof	(1 mark)
	ii)	with the aid of sketches, differentiate between flat and pitched roofs	(8 marks)
b)	Desc	ribe tree functional requirements of a roof	(5 marks)
c)	With reference to a roof truss, draw and label members of a roof		(6 marks)

# **QUESTION FOUR**

a)	i)	define the following terms		(8 marks)			
		I. She	et glass				
		II. Put	ty				
		III. Bea	ıds				
		IV. Gla	zing				
		V. Stor	rm drains				
	ii)	state two w	vindow furniture	(2 marks)			
b)	Desc	ribe the proce	be the procedure of constructing pavings in external works (10 marks)				
QUI	ESTION	FIVE					
a)	Describe the following type of glass (4 ma						
	i.	Translucen					
	ii.	Wired glas	8				
b)	defin	the term landscaping (2 marks)					
c)	describe the following landscaping plants (6 marks						
	i.	Shrubs					
	ii.	Grasses					
	iii.	Climbers					
d)	Skete	Sketch and label the following types of doors (8 mar					
	i.	Ledged and braced door					
	ii.	Paneled do					