

## **MACHAKOS UNIVERSITY**

## **University Examination 2018/2019**

## SCHOOL OF ENGINEERING AND TECHNOLOGY DEPARTMENT OF BUILDING AND CIVIL ENGINEERING SECOND YEAR SPECIAL/SUPPLEMENTARY EXAMINATION FOR CERTIFICATE IN BUILDING CONSTRUCTION

DATE: 31/7/2019 TIME: 2.00-4.00 PM

**BCEBT210 GENERAL BUILDING CONSTRUCTION** 

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INSTRUCTIONS: Answer questions ONE and any other TWO questions.				
1.	a)	State 5 reasons for maintaining a building	(5 marks)	
	b)	Draw and label Portsmouth ball valve	(10	
marl	ks)			
	c)	Outline three advantages of plastics cistern over mild-steel cistern	(6	
marl	ks)			
	d)	State two advantages and disadvantages of direct cold water supply	(4	
marl	ks)			
	e)	State 5 principles of good drainage	(5	
marl	ks)			
2	a)	Outline 3 points to consider when planning drain laying	(6 marks)	
	b)	With a well labelled diagram, discuss combined scheme of laying drain	ns or pipes	
			(14 marks)	
3	a)	Discuss three advantages of indirect hot water system over direc	t hot water	
syste	em		(6	
marl	ks)			
	b)	b) Illustrate with a sketch an indirect hot water system installation in a building		
			(14 marks)	

4	a)	Discuss the importance of fitting traps when laying drains	(4
mark	as)		
	b)	Draw and label an's' trap outlet	(6
mark	as)		
	c)	With a well labelled diagram illustrate an inspection chamber	(10
mark	(s)		
5	a)	Draw and label a light circuit wiring for building	(10
mark	as)		
	b)	Using sketches discuss how you can insulate the ceiling of building	against heat
			(10 marks)