

TECHNICAL UNIVERSITY OF MOMBASA

FACULTY OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF ARCHITECTURE & BUILT ENVIRONMENT

UNIVERSITY EXAMINATION FOR:

BACHELOR OF ARCHITECTURAL STUDIES/BACHELOR OF

ARCHITECTURE

EAR 4103: GEOLOGY AND CLIMATOLOGY

SPECIAL/SUPPLEMENTARY EXAMINATION

SERIES: SEPTEMBER2017

TIME:2HOURS

DATE: Pick DateSep2018

Instructions to Candidates

You should have the following for this examination -Answer Booklet, examination pass and student ID This paper consists of FIVE questions. Attemptquestion ONE (Compulsory) and any other TWO questions.

Do not write on the question paper.

Question one

(30Marks)

a) Discuss the types of Pollutants.	(8marks)
b) List the agents of Metamorphism and explain the processes that take	
place during metamorphism.	(8marks)
c) Differentiate between;	
i) Weather and Climate	
ii) Hardness and Tenacity	
iii) Micro-climate and Macro-climate	
iv) Core and Mantle	
v) Rock and Soil	(10marks)
d) Define Pollution and name the different types.	(4marks)

Questi	on Two.	(20Marks)	
	a) Briefly discuss the different Climb) Explain the factors that affect ign	atic zones. eous rock textures.	(10marks) (10marks)
Questi	on Three.	(20Marks)	
a) b)	Discuss the four (4) elements of Air Giving examples, briefly discuss for	movement. Use illustrations. ar agents of erosion and deposition.	(12marks) (8marks)
Questi	on Four.	(20marks)	
a)	Outline the steps for climate considered of a building.	eration in the design and architecture	(10marks)
b) c)	Describe the processes of sedimenta Define Atmosphere.	ry rock formation.	(8marks) (2marks)
Questi	on Five.	(20marks)	
a) b)	Briefly discuss the effects Air Pollut Outline the elements of Climate.	tion.	(8marks) (8marks)

c) Discuss the igneous rock classification based on silica content. (4marks)