

TECHNICAL UNIVERSITY OF MOMBASA

Faculty of Applied and Health Sciences

Department of Environment & Health Sciences

UNIVERSITY EXAMINATION FOR:

BACHELOR OF SCIENCE IN; FISHERIES AND OCEANOGRAPHY/ MARINE RESOURCE MANAGEMENT/ JOURNALISM/ JOURNALISM AND MASS COMMUNICATION

BSF017S/BSMR17S/BBJ17S/BJMC 17S//YEAR 1/SEMESTER 1

AES 4101: ENVIRONMENTAL STUDIES SPECIAL/SUPPLIMENTARY EXAMINATIONS SERIES: SEPTEMBER 2018 TIME: 2 HOURS

Instructions to Candidates

This paper consists of FIVE questions

Answer question ONE (COMPULSORY) and any other TWO questions.

This paper consists of two printed pages.

Mobile phones are NOT allowed in the examination room

QUESTION ONE

(a) Differentiate between the following concepts as used in environmental Studies.

	(i)	Sustainability and Sustainable development.	(2 marks)
	(ii)	Ecosystem and Biodiversity.	(2 marks)
	(iii)	Photosynthesis and cellular respiration.	(2 marks)
	(iv)	Rift and Rift Zones.	(1marks)
(b)	Briefly	y explain the plate tectonic theory as an Earth forming process.	(3 marks)
(c)	Huma	n Health is at risk due to Environmental Variability, using three examples	
	Illustra	ate.	(3 marks)

(d)	List the two laws of Thermodynamics.	(2 marks)		
(e)	Differentiate the three types of grassland found in an Ecosystem.	(3 marks)		
(f)	What are the principal characteristics of the lentic versus the lotic freshwater Ecosystem?	(3 marks)		
(g)	Define Eutrophication?	(2 marks)		
(h)	List three Ecosystem distresses common in Marine Environment.	(3 marks)		
(i)	Briefly illustrate importance of decomposers in the Environment.	(2 marks)		
QUESTION TWO				
(a)	What are the three responses of the Environment to Pollution?	(5 marks)		
(b) marine	What is the importance of an environmental assessment for the management of a te based ecosystem? (15 marks)	terrestrial or		
QUESTION THREE				
(a)	Using examples define the five types of terrestrial ecosystems and their important Sustainability.	e in (10 marks)		
(b)	Using examples explain the total economic values of environmental resources.	(5 marks)		
(c)	Explain the importance of a well-managed and maintained climate.	(5 marks)		
QUESTION FOUR				
(a)	Using an illustration explain the water cycle.	(5 marks)		
(b)	Explain the major processes in carbon cycle, and its importance in waste manager	nent. (5		
marks) (c)	Analyze the effects of policy on air and water pollution and Health Management.	(10 marks)		
QUESTION FIVE				
(a)	List and explain the advantages and disadvantages of these Energy sources.	(10 marks)		
(c)	In your opinion can Kenya possibly use safe Energy sources? Explain.	(5 marks)		
(d)	Elaborate on importance of environment.	(5 marks)		