



Technical University of Mombasa

Faculty of Applied and Health Sciences

DEPARTMENT OF PURE AND APPLIED SCIENCES
UNIVERSITY EXAMINATION FOR THE DEGREE OF BACHELOR OF
SCIENCE IN JOURNALISM AND MEDIA COMMUNICATION
BJMC 13M

AES 4100 : ENVIRONMENTAL STUDIES

SPECIAL/SUPPLEMENTARY EXAMINATION

OCTOBER 2013 SERIES

2 HOURS

Instructions to candidates:

This paper consist of **FIVE** questions

Answer question **ONE** (compulsory) and any other **TWO** questions

Question ONE

- a) Differentiate between the following concepts in relation to environmental studies
 - (i) Sustainability and sustainable development (2marks)
 - (ii) Benthic and profundal ecosystems (2marks)
 - (iii) Rivers and lakes (2marks)
 - (iv) Photosynthesis and cellular respiration (2marks)
 - (v) Divergent and convergent boundaries (2marks)
- b) What are the FIVE components of the earth systems? (2marks)
- c) Briefly explain the plate tectonic theory as an earth forming process (3marks)
- d) Human Health is at risk due to environmental variabilities, using three examples

illustrate. **(2marks)**

e) Define an ecosystem and expound on two ecosystem types found in eastern Kenya

(2marks)

f) (i) What are the three environmental responses to pollution **(3marks)**

(ii) What is Euthopication ? Explain **(2marks)**

g) Explain the importance of decomposes in the environment **(2marks)**

h) What are the common Environmental distresses in coastal Kenya? **(2marks)**

i) Explain the importance of the 1st law of thermodynamics in environmental questions

(2marks)

Question TWO

a) What are the Main positive population check and why are they important. **(5marks)**

b) Urban slums and shanty towns are as a result of environmental laws that are weak! In the light of this statement

(i) Discuss the role of environmental management in sustainable cities **(5marks)**

(ii) In your negate or affirm the stated position. **(5marks)**

c) What is the relationship between enough use and consumption and environmental inequity **(5marks)**

Question THREE

a) Describe the THREE waste must strategies in the environment in controlling pollution.

(9marks)

b) Clearly explain how waste management in Mombasa and it's environs can be effectively managed **(6marks)**

c) What are the common effects of an pollution **(5marks)**

Question FOUR

a) Discuss the impact of population Management on sustainable societies **(5marks)**

b) Define a Bio-Geochemical cycle **(2marks)**

c) Using an illustration explain the importance of the water cycle **(13marks)**

Question FIVE

- a) According to ecosystem Assessment, explain the FOUR main sources provided by the environment **(10marks)**
- b) Why would environmental integrity be considered as an important component in Human Health **(10marks)**