



Technical University of Mombasa

Faculty of Applied and Health Sciences

DEPARTMENT OF ENVIRONMENT AND HEALTH SCIENCES
UNIVERSITY EXAMINATION FOR THE DEGREE OF
BACHELOR OF SCIENCE JOURNALISM AND MASS MEDIA

AES 4100: FOUNDATION OF ENVIRONMENTAL STUDIES

SPECIAL/SUPPLEMENTARY EXAMINATION

FEBRUARY 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) Compare and contrast
 - (i) Convergent and divergent plate boundaries (2marks)
 - (ii) Photosynthesis and cellular respiration (2marks)
 - (iii) Atmosphere and hydrosphere (2marks)
 - (iv) Ecosystem & Ecosystem services (2marks)
- b) Why should we study and understand the environment (3marks)
- c) Using an illustration show ecosystem tophic levels. (5marks)
- d) Describe the theory of plate tectonic (4marks)
- e) Describe the four purposes of ecosystem management (4marks)
- f) Give examples of non-renewable resources (3marks)
- g) What are the environmental challenges of fossil fuels (3marks)

Question TWO

- a) Using relevant examples show the importance of **(5marks each)**
- i) The forest Act 1997
 - ii) The wildlife Act 1998
 - iii) E.M.C.A 2004
- b) Explain the role of a citizen in environmental law formulation **(5marks)**

Question THREE

- a) Explain the five spheres of the earth **(5marks)** Show their composition **(5marks)** and analyse their importance **(5marks)**
- b) What is the importance of catchment protection **(5marks)**

Question FOUR

- a) What are ecosystem services **(2marks)**
- b) Based on the millennium Ecosystem Assessment, explain eight services provided by the environment **(16marks)**
- c) What is carbon sequestration **(2marks)**

Question FIVE

- a) Define a pollutant **(2marks)**
- b) What are the main sources of atmospheric pollution **(6marks)**
- c) Give the effects of air and land pollution **(6marks)**
- d) What are the common method of waste management **(6marks)**