

TECHNICAL UNIVERSITY OF MOMBASA

FACULTY OF APPLIED AND HEALTH SCIENCES
DEPARTMENT OF ENVIRONMENT & HEALTH SCIENCES
UNIVERSITY EXAMINATION FOR:
DIPLOMA IN ENVIRONMENTAL SCIENCE
AES 2106 WETLAND ECOSYSTEMS AND MANAGEMENT
END OF SEMESTER EXAMINATION
SERIES:AUGUST2018
TIME:2HOURS
DATE:Pick DateAug2019

Instructions to Candidates

You should have the following for this examination

-Answer Booklet, examination pass and student ID

This paper consists of **FIVE** Question(s). Attempt question ONE (Compulsory) and any other TWO questions

QUESTION ONE

- a) Define a wetland and state examples of wetlands in Kenya. (4 marks)
- b) Describe the following principles and values as used in wetland management and conservation practice
 - i) Devolution (3 marks)
 - ii) Equity (3 marks)
- c) Briefly outline any five Socio-economic Importance of wetlands in Kenya (5 marks)
- d) Describe briefly the impacts of population growth on wetlands (5 marks)
- e) Briefly describe any three wetland products (5 marks)
- f) Briefly outline any five Ecological Importance of wetlands in Kenya (5 marks)

QUESTION TWO

- a) State three major challenges facing wetlands in Kenya today. (3marks)
- b) Discuss possible solutions for each of the challenges mentioned in (2, a) above. (12 marks)

QUESTON THREE

- a) Describe the following guiding principles and values as used in wetland management
 - i) Wise use (3 marks)
 - ii) Precautionary principle
 - iii) Polluter pays principle (3 marks)
- b) Briefly explain Ramsar Convention and state any four sites in Kenya listed as Ramsar sites (6 marks)

QUESTION FOUR

Discuss the importance of sector linkages at national and international levels in wetland management (15 marks)

QUESTION FIVE

Discuss Wetlands as important ecosystems for climate change mitigation and adaptation (15 marks)