



KENYATTA UNIVERSITY

UNIVERSITY EXAMINATIONS 2009/2010

FIRST SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF
ENVIRONMENTAL STUDIES (PLANNING AND MANAGEMENT)

EPM 453: PLANNING AND MANAGEMENT OF WETLAND RESOURCES

DATE: FRIDAY, 9TH APRIL 2010

TIME: 8.00 A.M. - 10.00 A.M.

INSTRUCTIONS:

- Time allowed is TWO (2) hours
- Answer question ONE (1) and any other TWO (2) questions.
- Illustrate your answers by means of carefully drawn sketches and diagrams.

QUESTION 1

- a) What do you understand by the term “wetlands” (3 marks)
- b) Discuss the characteristics used to identify a wetland (12 marks)
- c) Compare and contrast the wetland classification based on Cowardin and Ramseur classifications. (10 marks)
- d) What is the role of landscape in wetland values? (5 marks)

QUESTION 2

Discuss the challenge on wetlands occasioned by urbanization. (20 marks)

QUESTION 3

- a) What do you understand by wetland functions? Discuss the Biogeochemical Processing component of the functions of wetlands. (10 marks)
- b) List and explain the values of wetlands in relation to water quality. (10 marks)

QUESTION 4

Discuss the challenges facing the five main watersheds in Kenya (20 marks)

QUESTION 5

- a) What do you understand by Integrated Water Resources Management (IWRM) planning. (10 marks)
- b) Discuss the barriers to improve management of water resources in Kenya. (10 marks)
