



UNIVERSITY OF EMBU

2016/2017 ACADEMIC YEAR

SECOND SEMESTER EXAMINATION

THIRD YEAR EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE IN
WATER RESOURCES MANAGEMENT AND MANAGEMENT OF
AGROECOSYSTEMS AND ENVIRONMENT

ASS 306: UTILIZATION AND MANAGEMENT OF WETLAND ECOSYSTEMS

DATE: APRIL 11, 2017

TIME: 8:30-10:30AM

INSTRUCTIONS:

Answer Question ONE and ANY other TWO Questions

QUESTION ONE

- Describe the THREE main components of a wetland. (6 marks)
- State the objectives of the Kenya wetlands draft policy. (6 marks)
- Evaluate the common names used to refer to wetlands. (6 marks)
- Outline the THREE policy statements addressing research, education and awareness in the draft Kenya wetlands policy. (6 marks)
- Briefly describe the importance of sulphur in wetlands. (6 marks)

QUESTION TWO

- Discuss the hydrological processes that occur in wetlands. (10 marks)
- Describe the factors that influence hydrologic and water-quality functions of wetlands. (10 marks)

QUESTION THREE

- a) Describe the Nitrogen cycle with specific reference to wetland ecosystems. (10 marks)
- b) Describe the mechanisms of phosphorus release in wetlands. (10 marks)

QUESTION FOUR

- a) Discuss the main threats and challenges facing wetlands utilization and management in Kenya. (10 marks)
- b) Explain how local communities along the Kenyan Coast can be involved in management and conservation of mangrove wetlands. (10 marks)

QUESTION FIVE

Discuss the ecological significance of wetlands. (20 marks)

END