



MASENO UNIVERSITY

UNIVERSITY EXAMINATIONS 2017/2018

SECOND YEAR FIRST SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE IN ENVIRONMENTAL SCIENCE WITH INFORMATION TECHNOLOGY

MAIN CAMPUS

NES 205: FRESHWATER ECOLOGY

Date: 22nd February, 2018

Time: 8.30 - 11.30am

INSTRUCTIONS:

- Answer Question ONE and any other TWO



1. (a) Explain the general ecological functions of a river ecotone. (4marks)
(b) Describe the stratification phenomenon in lakes. (8marks)
(c) Using examples, describe the biotic structure as can be identified in pond ecosystems. (9marks)
(d) Write briefly on the important functions and services provided by wetlands. (9marks)

2. Discuss the achievable solutions to the major causes of wetland degradation and subsequent loss in Kenya. (20marks)

3. (a) With clear sketches, describe the characteristics and features of a river course system. (12marks)
(b) Write explanatory notes on the nature and functions of plant inhabiting torrential forms. (8marks)

4. (a) Give an account on the origin, formation and characteristics of known freshwater lakes. (8marks)
(b) Write briefly on the nature of biological communities on key zones of a tropical lake ecosystem. (12marks)

5. a) Explain the concerns of depositional shores. (8marks)
(b) Discuss the solutions to the challenges facing fishery and fish production in Kenya. (12marks)