



JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY
SCHOOL OF SPATIAL PLANNING
UNIVERSITY EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE
IN WATER RESOURCE AND ENVIRONMENTAL MANAGEMENT
SEMESTER 2016/2017 ACADEMIC YEAR

CENTRE: MAIN CAMPUS

COURSE CODE: PWE 3316

COURSE TITLE: WETLAND ECOLOGY AND CONSERVATION

EXAM VENUE:

STREAM: SPATIAL PLANNING

DATE:

EXAM SESSION:

TIME: 2 HOURS

Instructions:

- 1. Answer question 1 (compulsory) and ANY other 2 questions.**
- 2. Candidates are advised not to write on the question paper.**
- 3. Candidates must hand in their answer booklets to the invigilator while in the examination room.**

QUESTION ONE

- a) Discuss the noteworthy fauna and flora of Lake Naivasha as a Ramsar site (10 marks)
- b) Discuss the classification of wetlands based on location (10 marks)
- c) Discuss the four categories of macrophytes (10 marks)

QUESTION TWO

- a) Discuss with examples five ways how plants are adapted to wetland conditions (10 marks)
- b) Discuss with examples five ways how animals are adapted to wetland conditions (10 marks)

QUESTION THREE

Discuss the four ways through which wetland degradation and loss can be mitigated against.

(20 marks)

QUESTION FOUR

Give the Criteria for the designation of Wetlands of International Importance according to the following groups:

- a) Group A of the criteria (4 marks)
- b) Group B of the criteria
 - i. Criteria based on species and ecological communities (12 marks)
 - ii. Specific criteria based on other taxa (4 marks)

QUESTION FIVE

- a) Discuss five factors upon which value may be attributed to a wetland (10 marks)
- b) Discuss five benefits of wetlands in regulating hydrological processes (10 marks)