



JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE & TECHNOLOGY
SCHOOL OF AGRICULTURE AND FOOD SCIENCES
UNIVERSITY EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE IN
SOIL SCIENCES
3RD YEAR 2ND SEMESTER 2017/2018 ACADEMIC YEAR
MAIN CAMPUS – REGULAR

COURSE CODE:	ALS 3322
COURSE TITLE:	WETLAND SOILS MANAGEMENT
EXAM VENUE:	STREAM: (BSC. SOIL)
DATE:	EXAM SESSION:
TIME: 2 HOURS	

Instructions:

- 1. Answer ALL questions in Section A and Any two questions in Section B**
 - 2. Candidates are advised not to write on question paper**
 - 3. Candidates must hand in their answer booklets to the invigilator while in the examination room**
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SECTION A: SHORT ANSWER QUESTIONS (30 MARKS)

Answer All Questions from this Section

1. Explain your understanding of the following terms:
a) hydroperiod b) Hydrosere c) Hydric soil. (3 marks)
2. Differentiate between recharge and discharge wetlands. (2 marks)
3. Differentiate between bogs and fens. (2 marks)
4. Hydric soils can be either organic or mineral soils. Explain. (4 marks)
5. Explain three indicators of wetlands. (3 marks)
6. Describe two criteria developed to define hydric soils. (4 marks)
7. Citing examples, list four importance of wetlands in Kenya. (4 marks)
8. Briefly explain wetland water budget. (4 marks)
9. Explain cycling of nitrogen in wetlands. (4 marks)

SECTION B: ESSAY QUESTIONS (40 MARKS)

Answer Any Two Questions from this Section.

10. Citing relevant examples, discuss management and conservation of hydric soils in Kenya. (20 marks)
11. A) Describe field indicators of hydric soils (8 marks)
B) Using a diagram, describe hydrological cycle in wetlands. (12 marks)
12. Write an essay on EAST African wetlands. (20 marks)
13. Discuss wetland vegetation succession. (20 marks)