

MAASAI MARA UNIVERSITY

REGULAR UNIVERSITY EXAMINATIONS 2018/2019 ACADEMIC YEAR FIRST YEAR SECOND SEMESTER

SCHOOL OF TOURISM AND NATURAL RESOURCE MANAGEMENT DOCTOR OF PHILOSOPY IN ENVIRONMENTAL STUDIES

COURSE CODE: SES 818 E

COURSE TITLE: ECOLOGY OF FRESH AND

OTHER INLAND WATERS

DATE: 4TH DECEMBER, 2018 TIME: 0830 – 1030 HRS

INSTRUCTIONS TO CANDIDATES

Answer ALL questions in section A and any other THREE in section B. Use examples and illustrations where possible

This paper consists of 2 printed pages. Please turn over.

SECTION A (25 MARKS)

- 1. Speculate on what can cause fish kills in lakes, rivers, coastal waters and oceans? (5 marks)
- 2. With examples, briefly describe major groups of freshwater organisms in fresh water ecosystesm (5 marks)
- 3. Discuss the distribution of inland water ecosystems in Narok County (5 marks)
- 4. Discuss five (5) bioindicators of chemical contaminants in inland water ecosystems? (5 marks)
- 5. Describe processes that can lead to phytoplankton blooms (5 marks)

SECTION B (45 MARKS)

- 6. Classify five (5) types of lakes using the origin of lakes as the mode of classification (15 marks)
- 7. On the basis of at least five criteria, describe the different classes in which rivers can be classified into (15 marks)
- 8. Discuss the significance of ponds as freshwater ecosystems (15 marks)
- 9. (i) Who has the mandate for freshwater ecosystems conservation in Kenya (3 marks)
 - (ii) Discuss conservation measures for freshwater ecosystems that have been taken by the above (i) said bod(ies)y (12 marks)
- 10. Discuss lake and pond zones as inland water ecosystems, hydrographic characteristics, physical characteristics as well as their flora and fauna (15 marks)
- 11. Discuss in detail the causes, effects and control measures of eutrophication (15 marks)

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