

MAASAI MARA UNIVERSITY

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

SCHOOL OF TOURISM AND NATURAL
RESOURCE MANAGEMENT
BACHELOR OF SCIENCE
(ENVIRONMENTAL BIOLOGY AND HEALTH)

COURSE CODE: EBH 1103/AHP 1105
COURSE TITLE: INTRODUCTION TO ECOLOGY
AND BIODIVERSITY

DATE: 7TH DECEMBER 2018 TIME: 1430 - 1630HRS

INSTRUCTIONS TO CANDIDATES

ATTEMPT ALL QUESTIONS IN SECTION A AND ANY 3 IN SECTION B

<u>Support your answers with relevant examples and illustrations and clearly show your calculations, where relevant.</u>

This paper consists of 2 printed pages. Please turn over

SECTION A (25 MARKS)

Attempt ALL questions in this section.

- 1. State 5 ABIOTIC factors that affect freshwater organisms.
- 2. Explain the differences between:
 - i) Endangered and Vulnerable species
 - ii) Keystone and Flagship species
 - iii) Net primary production and Gross primary production
- 3. Using a labelled diagram, explain the difference between Geometric and Logistic growth curves
- 4. Explain what you understand by the concept of niche differentiation and resource partitioning. What is its ecological significance?
- 5. State any 5 ecological functions of wetlands.

SECTION B (45 MARKS)

Attempt ANY THREE questions.

- 6. Discuss the major causes of biodiversity loss in the tropics.
- 7. Discuss the major causes of human wildlife conflict in the Masa Mara ecosystem.
- 8a. What is primary production.?
- 8b. Discuss the major factors limiting primary production in terrestrial ecosystems.
 - 9. Discuss the categorization of threats to biodiversity according to IUCN.

****** END OF EXAM QUESTIONS******