



MAASAI MARA UNIVERSITY

**REGULAR UNIVERSITY EXAMINATIONS
2018/2019 ACADEMIC YEAR
THIRD YEAR, FIRST SEMESTER**

**SCHOOL OF TOURISM AND NATURAL
RESOURCE MANAGEMENT
BACHELOR OF ENVIRONMENTAL BIOLOGY
AND HEALTH**

**COURSE CODE: EBH 3116
COURSE TITLE: ENVIRONMENTAL STRESS ON
FLORA AND FAUNA**

DATE: 5TH DECEMBER, 2018

TIME: 0830 - 1030 HRS

INSTRUCTIONS TO CANDIDATES

Answer **ALL** questions in section **A** and any other three in section **B**

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

SECTION A

Answer all the questions in this section (25 marks)

1. Define the following terms;
 - i) Ecotoxicology (1 mark)
 - ii) Environmental stress (1 mark)
 - iii) Radiation (1 mark)
 - iv) Native plants (1 mark)
 - v) Burrowing mechanism (1 mark)
2. Differentiate between short range and long range adaptations (6 marks)
3. Outline the importance of chemical defense systems in plants (5 marks)
4. a) Describe biotic stresses in animals and plants (5 marks)
b) Describe why plants have broader stress tolerance range than animals (4 marks)

SECTION B

Answer any 3 (THREE) questions (45 marks)

5. Discuss how abiotic stress have affected biodiversity across the world and how the animals and plants have been able to overcome the stress (15 marks)
6. Environmental students at Maasai Mara University were given an obligation to conduct an ecological risk assessment along Ewaso Ngiro River. What were some of the process they could have considered during the exercise? (15 marks)
7. There are basically three types of environmental adaptation, discuss them giving examples of organisms that are likely to adopt them (15 marks)
8. Discuss characteristics of plants adapted to water and pathogenic activities (15 marks)

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