



# **MAASAI MARA UNIVERSITY**

**REGULAR UNIVERSITY EXAMINATIONS  
2017/2018 ACADEMIC YEAR  
THIRD YEAR FIRST SEMESTER**

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

**COURSE CODE: EBH 300**

**COURSE TITLE: ENVIRONMENTAL STRESS ON  
FLORA AND FAUNA**

**DATE: 24<sup>TH</sup> APRIL 2018**

**TIME: 0830 - 1030HRS**

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**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 QUESTIONS (25 MARKS)**

1. Define the following terms
  - a. Ecotoxicology (1MK)
  - b. A stressful environment (1MK)
  - c. Tolerance (1MK)
  - d. Stress tolerance (1MK)
  - e. Homeostasis (1MK)
2. Briefly explain plants adaption strategies to environmental stress (4 MKS)
3. Explain the types of environmental stress (4MKS)
4. Distinguish between stress and disturbance (4MKS)
5. Explain the characteristics of environmental stress (4MKS)
6. List the effects of savanna disturbance (4MKS)

**SECTION B: ANSWER ANY THREE QUESTIONS (45 MARKS)**

7. Discuss plants responses to the following environmental stress: (15MKS)
  - (a) Water
  - (b) Temperature
  - (c) Heat
  - (d) Cold
  - (e) Salts
8. Describe the environmental conditions to which these plants are adapted as well as the physiological mechanisms that help them survive stressful conditions: (15MKS)
  - (a) Hydrophyte
  - (b) Xerophyte
9. Discuss the importance of fire disturbance in habitat management (15MKS)
10. Describe the effects of biotic stress factors on flora and fauna (15MKS)

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