



MAASAI MARA UNIVERSITY

**REGULAR UNIVERSITY EXAMINATIONS
2019/2020 ACADEMIC YEAR
FIRST YEAR FIRST SEMESTER**

**SCHOOL OF NATURAL RESOURCE AND
ANIMAL SCIENCES
BACHELOR OF SCIENCE IN ANIMAL HEALTH
AND PRODUCTION**

**COURSE CODE: AHP1105
COURSE TITLE: ECOLOGY AND ENVIRONMENTAL
MANAGEMENT**

DATE: 16TH DECEMBER, 2019

TIME: 1430 - 1630 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

1. Explain the two divisions of ecology **(4MKS)**
2. Differentiate between population and community **(4MKS)**
3. Explain the functions of an ecosystem **(3MKS)**
4. Explain two types of food chains **(4MKS)**
5. Name two free living bacteria **(4MKS)**
6. Briefly discuss why energy and biomass decrease at higher trophic levels **(6MKS)**

Answer any other THREE in section B.

7. i. Discuss five main processes of nitrogen cycle **(10 MKS)**
ii. Explain contributions of livestock and other range animals to the nitrogen cycle **(5 marks)**
8. Describe human impacts on the structure and function of the ecological system **(15MKS)**
9. Using a diagram discuss the carbon cycle **(15MKS)**
10. Describe the causes of climate change **(10MKS)**
- 10(a) Discuss the effects of climate change on livestock **(5MKS)**

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