



MAASAI MARA UNIVERSITY

REGULAR UNIVERSITY EXAMINATIONS

2021/2022 ACADEMIC YEAR

FIRST YEAR FIRST SEMESTER

**SCHOOL OF NATURAL RESOURCE, TOURISM
AND HOSPITALITY**

**BACHELOR OF SCIENCE IN ANIMAL HEALTH
AND PRODUCTION**

COURSE CODE: AHP 1105-1

**COURSE TITLE: ECOLOGY AND
ENVIRONMENTAL MANAGEMENT**

DATE: 8TH APRIL 2022

TIME: 1100-1300HRS

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 20 MARKS

1. Define the following terms; **(4 MKS)**
 - a. Synecology
 - b. Biosphere
 - c. Ecosystem
 - d. Gross primary productivity
2. Differentiate between food chain and food web **(4 MKS)**
3. Explain the level of ecological organization from the largest to the smallest **(6MKS)**
4. Explain the role of decomposers in nutrient cycling and energy flow **(2MKS)**
5. Explain the function of ecosystem **(4MKS)**

SECTION B: ANSWER ANY THREE QUESTIONS (30 MARKS)

6. Discuss the classification of plant communities **(10MKS)**
7. Using a diagram discuss the nitrogen cycle **(10MKS)**
8. Discuss the types of ecological pyramid **(10MKS)**
9. Discuss the Impacts of climate change on livestock production **(10MKS)**

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