



MAASAI MARA UNIVERSITY

**REGULAR UNIVERSITY EXAMINATIONS
2017/2018 ACADEMIC YEAR
FOURTH YEAR SECOND SEMESTER**

**SCHOOL OF TOURISM AND NATURAL
RESOURCE MANAGEMENT
BACHELOR OF EDUCATION (ARTS)**

**COURSE CODE: GEO 404
COURSE TITLE: CONSERVATION OF
BIODIVERSITY**

DATE: 19TH APRIL, 2018

TIME: 8.30 – 10.30 A.M

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

1. Write short notes on;
 - a) Carrying capacity **(2MKS)**
 - b) Keystone species **(2MKS)**
 - c) Communities **(2MKS)**
 - d) Ecosystem **(2MKS)**
2. Give reasons why we have more plant species diversity in the tropics **(3MKS)**
3. Using a well labelled diagram explain energy and nutrient transfer through ecosystems **(6MKS)**
4. Explain the relationships between individuals of different species in ecosystem **(4MKS)**
5. Differentiate between a developing and mature ecosystems **(4MKS)**

SECTION B: ANSWER ANY THREE QUESTIONS

6. Discuss the different types of biome in relation to temperature and rainfall **(15MKS)**
7. a. Using a well labelled diagram, discuss the carbon cycle **(10 MKS)**
b. Explain how the carbon cycle has been altered in the past few decades **(5MKS)**
8. Discuss the human impact on biodiversity and respective conservation strategies **(15MKS)**
9. Using specific examples, discuss the role of various institutions in Kenya in the management of natural resources **(15MKS)**

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