## **MAASAI MARA UNIVERSITY**

### REGULAR UNIVERSITY EXAMINATIONS 2019/2020 ACADEMIC YEAR FOURTH YEAR FIRST SEMESTER

# SCHOOL OF TOURISM AND NATURAL RESOURCE MANAGEMENT BACHELOR OF SCIENCE (BIOLOGY AND HEALTH)

**COURSE CODE: EEM 4133** 

**COURSE TITLE: CONSERVATION BIOLOGY** 

DATE: TIME:

### **INSTRUCTIONS TO CANDIDATES**

Answer  $\boldsymbol{ALL}$  questions in Section  $\boldsymbol{A}$  and any  $\boldsymbol{THREE}$  in Section  $\boldsymbol{B}$ 

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

#### Section A: 25 marks

1.	Differentiate between the following terms as used in Conservation biology	
	a. Species richness and species abundance	(2 marks)
	b. Habitat isolation and habitat degradation	(2 marks)
	c. Instrumental and intrinsic value of biodiversity	(2 marks)
2.	Explain the importance of genetic diversity in conservation	(2 marks)
3.	With examples, explain the levels of biodiversity	(6 marks)
4.	Explain 'edge influence' and state how it leads to biodiversity loss	(4 marks)
5.	Highlight four global prioritization strategies for identifying and selecting land areas to conserve for	
	biodiversity	(4 marks)
6.	Outline the importance of Biodiversity monitoring	(3 marks)
Section B: 45 Marks		
1.	a) Briefly explain the ethical perspectives in biodiversity conservation	(6 marks)
b) Discuss the characteristics of ecosystem approach in ecosystem management		

2. Describe the ways conservation policies, programmes and projects can result in conflicts

(15 marks)

(9 marks)

3. Discuss the IUCN Protected Area management Categories (15 marks)

4. a) Discuss ex situ conservation method in Biodiversity conservation (9 marks)

b) Discuss the economic tools used in valuation of conservation (6 marks)

**END**