

MAASAI MARA UNIVERSITY

REGULAR UNIVERSITY EXAMINATIONS 2 2018/2019 ACADEMIC YEAR

THIRD YEAR SECOND SEMESTER EXAMINATIONS FOR THE DEGREE OF BACHELOR OF SCIENCE (BOTANY)

COURSE CODE: BOT 3211 COURSE TITLE: PLANT ECOLOGY

DATE: 25TH APRIL, 2019

TIME: 1430 - 1630HRS

Instructions

Answer **ALL** questions in section **A** and any other **TWO** selected from section **B**. Illustrate your answers with diagrams and give examples where appropriate.

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

SECTION A (30 MARKS): ANSWER ALL QUESTIONS

1. Define the following terms	
a. Disturbance	(1 mk)
b. Ecological stress	(1 mk)
c. Succession	(1 mk)
2. Describe the typical flora and fauna of Tundra and Ta	iga (3 mks)
3. Explain the reasons for the abundance of flora and fa	auna in the tropical
forests	(3 mks)
4. Give local and seasonal effects on climate	(3 mks)
5. Discuss why the community composition changes a	as one moves up a
mountain and down a continental shelf into the ab	yssal depths of the
ocean	(3 mks)
6. Describe three factors of microclimate that affect plan	nt communities
	(3 mks)
7. Distinguish between primary and secondary forests	(3 mks)
8. Describe the economic applications of a biodiverse economic	
9. Account for the main causes of biodiversity loss	(3 mks)
10. State three conservation measures you would und	
Serengeti ecosystem	(3 mks)
	()

SECTION B (40 MARKS): ANSWER ANY TWO QUESTIONS

- 11. Classify Kenya in terms of ecological zones
- 12. Discuss the analytical and synthetic characteristics of plant communities (20 mks)

13.

- a. Describe in detail, the various grassland ecosystems (12 mks)
- b. Distinguish the characteristics of the lotic and lentic ecosystems

(8 mks)

(20 mks)

14. Describe an experimental procedure you would use to study plant populations in the Mara-Serengeti ecosystem (20 mks)

//END