

MAASAI MARA UNIVERSITY

REGULAR UNIVERSITY EXAMINATIONS 2017/2018 ACADEMIC YEAR

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

BOT 315: PLANT ECOLOGY II

DATE: 24TH APRIL 2018 TIME: 1100 -1300HRS

Instructions

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

SECTION A (30 MARKS): ANSWER ALL QUESTIONS

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	1.	Define the following terms;	
	2.	a. Competitionb. Biomec. Trophic cascadeAs an ecologist, describe the types of experiments you wou	(1 mark) (1 mark) (1 mark) ld use in your
		research.	(3 mks)
	3.	Describe the Alfred Wegener Theory.	(3 mks)
	4.	Define; give examples and roles of biological hotspots.	(3 mks)
	5.	Describe briefly the impacts of land use and land use cha	anges on plant
		communities.	(3 mks)
	6.	Explain briefly, what would happen if you removed a keystone	species from ar
		ecosystem.	(3 mks)
	7.	Describe the plant composition from pioneer to climax commun	ity in a primary
		succession.	(3 mks)
	8.	'Is the ban on GMOs in Kenya justifiable?' Explain briefly	(3 mks)
	9.	How can the abundance and diversity of living organism	ns in tropica
		ecosystems be explained?	(3 mks)
	1	0. Give three major conservation strategies employed in the	Mara-Serenget
		ecosystem.	(3 mks)
SECTION B (40 MARKS): ANSWER ANY TWO QUESTIONS			
	11	. Describe in detail, the macroclimate and microclimate in relation	n to plant
		communities.	(20 mks)
	12	. Account for typical flora and fauna of the major terrestrial biom	es. (20 mks)
	13	a. Categorize environmental stressorsb. Describe the role of fire as a disturbance agent in a gras	(12 mks) sland
			(8 mks)
	14	.Write an essay on "the human footprint" and its impact on plant	communities.

(20 mks)

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