UNIVERISTY OF SWAZILAND DEPARTMENT OF GEOGRAPHY, ENVIRONMENTAL SCIENCE AND PLANNING SUPPLEMENTARY EXAMINATION, JULY 2013 B.A., BASS, B. Ed. (FT/PT)

TITLE OF PAPER:	BIOGEOGRAPHY
COURSE NUMBER:	GEP 312
TIME ALLOWED:	THREE (3) HOURS
INSTRUCTIONS:	1. ANSWER THREE QUESTIONS
	2. QUESTION 1 IS COMPULSORY
	3. ILLUSTRATE YOUR ANSWERS WITH
	EXAMPLES AND CLEARLY DRAWN DIAGRAMS
	WHERE APPROPRIATE

ALLOCATION OF MARKS: QUESTION 1 (COMPULSORY) CARRIES 40 MARKS WHILE THE REST CARRY 30 MARKS EACH

THIS PAPER SHOULD NOT BE OPENED UNTIL PERMISSION IS GRANTED BY THE INVIGILATOR

GEP 312: BIOGEOGRAPHY – JULY 2013

SECTION A: COMPULSORY

QUESTION 1

a) 1	Define	the	following	terms:
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i.	Differential co-existence	(2 marks)
ü.	Symbiosis	(2 marks)
iii.	Succession	(2 marks)
iv.	Niche	(2 marks)
v.	Nitrification	(2 marks)

- b) With reference to any community of your choice, identify and discuss human activities that are responsible for soil erosion. (20 marks)
- c) Suggest ways of alleviating the problem of soil erosion in the community chosen in (b) above. (10 marks)

(40 Marks)

SECTION B: ANSWER ANY TWO QUESTIONS

QUESTION 2

a) Using examples describe three types of fire. (18 marks)
b) Outline the merits and demerits of fire as an ecosystem management tool. (12 marks)

(30 Marks)

QUESTION 3

Using any dam as a case study, explain the negative impacts of dam construction on upstream and downstream ecosystems. (30 Marks)

QUESTION 4

Identify and discuss the factors influencing the composition of a climax community.

(30 Marks)

QUESTION 5

- a) Using examples, explain how competition affects the distribution of species in a community.
- b) Discuss the intra-specific interactions of organisms in an ecosystem. (15 marks)

(30 Marks)

(15 marks)