

**UNIVERSITY OF SWAZILAND
DEPARTMENT OF GEOGRAPHY, ENVIRONMENTAL SCIENCE AND
PLANNING
SUPPLEMENTARY EXAMINATION, JULY 2007
B.A., BASS**

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 CARRIES 30
MARKS EACH.**

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

**SECTION A
COMPULSORY**

QUESTION 1

'Biomes have been affected by human beings in various ways but mostly through agricultural developments and industrial establishments'. Discuss the validity of the statement using examples.

(40 marks)

SECTION B: ANSWER ANY TWO QUESTIONS

QUESTION 2

- a) Outline the principles behind the Theory of Island Biogeography. (10 marks)
- b) Explain the applicability and relevance of the Theory of Island Biogeography in land use planning and environmental management. (20 marks)
- (30 marks)**

QUESTION 3

With reference to the carbon cycle explain the importance of the two laws of Thermodynamics and the effects of anthropogenic activities on plant distribution in any environment.

(30 marks)

QUESTION 4

Using examples describe how plants and animals are stratified on the earth surface.

(30 marks)

QUESTION 5

'Organisms do not necessarily die when their environment change, but have the capacity to adjust to environmental changes'. Discuss the validity of the statement using examples.

(30 marks)