COURSE CODE: B304 (M) 2006

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UNIVERSITY OF SWAZILAND

FINAL EXAMINATION PAPER DECEMBER 2006

TITLE OF PAPER:

ECOLOGY

COURSE CODE:

B304

TIME ALLOWED: THREE HOURS

INSTRUCTIONS: 1.

- 1. ANSWER ANY <u>FOUR</u> QUESTIONS
- 2. EACH QUESTION CARRIES TWENTY FIVE (25) MARKS
- 3. ILLUSTRATE YOUR ANSWERS WITH LARGE AND CLEARLY LABELLED DIAGRAMS WHERE

APPROPRIATE

SPECIAL REQUIREMENTS:

NONE

THIS PAPER IS NOT TO BE OPENED UNTIL PERMISSION HAS
BEEN GRANTED BY THE INVIGILATORS

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QUESTION 1

- a) Describe the physical features of lenthic system noting the various life forms within each zone. (15 marks)
- b) Explain why primary production is low in most deep tropical lakes and tropical waters of the open seas. (10 marks)

[25 Marks]

QUESTION 2

Write concise essays on the following:

a) Adaptations to estuarine life by the animal community.

(10 marks)

b) Adaptations to desert life by the plant and animals communities.

(15 marks)

[25 Marks]

QUESTION 3

Write a detailed essay on the savanna grassland noting the importance of fire as an ecological factor in this habitat. [25 Marks]

QUESTION 4

Discuss the biological consequences of pollution in fresh-water bodies.

[25 Marks]

QUESTION 5

Explain your understanding of populations, survivorship curves and K & r selection strategies.

[25 Marks]

QUESTION 6

Write concise notes on Two of the following:

a) Mutualism

(12½ marks)

b) Autogenic succession

(12½ marks)

c) Detritus and Humus

(12½ marks)

[25 Marks]