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UNIVERSITY OF ESWATINI
FACULTY OF SCIENCE
DEPARTMENT OF BIOLOGICAL SCIENCES
SUPPLEMENTARY EXAMINATION 2019/2020 ACADEMIC YEAR

TITLE OF PAPER: BIODIVERSITY CONSERVATION

COURSE CODE: BIO 443

TIME ALLOWED: THREE HOURS

INSTRUCTIONS:

1. ANSWER ANY FOUR QUESTIONS IN THIS PAPER
2. START EACH QUESTION ON A NEW PAGE
3. ILLUSTRATE YOUR ANSWER 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.

Discuss the status of the biodiversity of Eswatini. Your discussion should include: definition, components, trends, threats, utilization and distribution of Eswatini's biodiversity.

(25 Marks)**QUESTION 2.**

Community based natural resource management (CBNRM) programmes and projects are in many ways a new and different approach to the management of land and natural resources. However there are a number of common problems that have emerged from CBNRM programmes and projects. Using countries in the Southern African region as examples, list and discuss some of these problems?

(25 Marks)**QUESTION 3.**

List and discuss the measures used to test the status of ecosystems. Use as many examples as possible, especially based on Eswatini's ecosystems.

(25 Marks)**QUESTION 4.**

List and discuss the three perspectives (parameters) that can be used to measure biodiversity at the ecosystem/community level.

(25 Marks)

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QUESTION 5.

Define conservation and discuss on the two approaches used in the conservation of ecosystems. Use as many examples as possible, especially from Eswatini.

(25 Marks)

QUESTION 6.

List and discuss the different approaches and methods conservation ecologists use to monitor biological populations.

(25 Marks)

END OF EXAMINATION PAPER