



UNIVERSITY OF ESWATINI

1st SEM. 2020/2021

RE-SIT EXAMINATION PAPER

**PROGRAMME: B.Sc. ANIMAL SCIENCE YEAR 1 AND B.Sc. ANIMAL SCIENCE
(DAIRY OPTION) YEAR 1**

COURSE CODE: ASC 103

TITLE OF PAPER: INTRODUCTION TO ECOLOGY

TIME ALLOWED: TWO (2) HOURS

INSTRUCTIONS: ANSWER ANY FOUR QUESTIONS

**DO NOT OPEN THIS PAPER UNTIL PERMISSION HAS BEEN GRANTED BY THE
CHIEF INVIGILATOR**

QUESTION 1

- (a) Differentiate between macro-environment and micro-environment. (5 Marks)
- (b) With brief definition of each level, give the hierarchical structure of ecology. (20 Marks)

QUESTION 2

- Give an outline on the balance of nature (dynamic equilibrium). (25 Marks)

QUESTION 3

- Give an outline of some of the important practical implications of nutrient cycles. (25 Marks)

QUESTION 4

- (a) State five (5) assumptions of ecology. (15 Marks)
- (b) Give an outline of energy exchange. (10 Marks)

QUESTION 5

- (a) Differentiate between autecology and synecology. (10 Marks)
- (b) Give an example of a community. (15 Marks)