



UNIVERSITY OF ESWATINI

1st SEM. 2019/2020

FINAL EXAMINATION PAPER

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

COURSE CODE: ASC101

TITLE OF PAPER: INTRODUCTORY 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) State the **four (4)** ecological concepts.
- (b) With a brief definition of each level, give the hierarchical structure of ecology.

(8 Marks)

(17 Marks)

QUESTION 2

Describe how the food manufactured by producers is used by producers and consumers.

(25 Marks)

QUESTION 3

- (a) Giving an example, describe the obligate mutualistic relationship.
- (b) Highlight the role of scavengers and detritivores.

(15 Marks)

(10 Marks)

QUESTION 4

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

(15 Marks)

(10 Marks)

QUESTION 5

Highlight the important practical implications of nutrient cycles.

(25 Marks)