



**UNIVERSITY OF ESWATINI**

**2<sup>nd</sup> SEM. 2018/2019**

**FINAL EXAMINATION PAPER**

**PROGRAMME: B.Sc. ANIMAL SCIENCE YEAR 4 (OLD PROGRAMME) AND  
B.Sc. ANIMAL SCIENCE (DAIRY OPTION) YEAR 4 (OLD  
PROGRAMME)**

**COURSE CODE: ASC 101**

**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) What is the theme of ecology? (5 Marks)

(b) With a brief definition of each level, give the hierarchical structure of ecology. (20 Marks)

**QUESTION 2**

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

**QUESTION 3**

(a) Define the term ecosystems. (5 Marks)

(b) Giving two examples, where applicable, mention the **SEVEN (7)** ecosystem components. (20 Marks)

**QUESTION 4**

Give an outline of ecosystem services under the headline “regulating services”. (25 Marks)

**QUESTION 5**

Describe predation and mention its influence on the organisms involved. (25 Marks)