



**UNIVERSITY OF ESWATINI**

**1<sup>st</sup> SEM. 2018/2019**

**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) Give an outline of any **FIVE (5)** phenomena ecology seeks to explain. **(10 Marks)**
- (b) Give any outline of the chief sources of gain and losses of mineral nutrients. **(15 Marks)**

**QUESTION 2**

Describe the role of producers and detritivores in the trophic level. **(25 Marks)**

**QUESTION 3**

Give an outline on species interaction under the headline "Apparent competition". **(25 Marks)**

**QUESTION 4**

Giving one example for each type, differentiate **FULLY AND CLEARLY** between facultative and obligate mutualist relationship. **(25 Marks)**

**QUESTION 5**

- (a) In a competitive situation how do species living in the same niche achieve a win – win situation to avoid extinction of either species or death of both species. **(15 Marks)**
- (b) Give an outline of any **FIVE (5)** assumptions of ecology. **(10 Marks)**