



**UNIVERSITY OF SWAZILAND**

**1<sup>st</sup> SEM. 2016/2017**

**FINAL EXAMINATION PAPER**

**PROGRAMME:** BSc. ANIMAL SCIENCE YEAR 1  
BSc. ANIMAL SCIENCE (DAIRY OPTION) YEAR 1

**COURSE CODE:** ASC 101

**TITLE OF PAPER:** INTRODUCTORY ECOLOGY

**TIME ALLOWED:** TWO (2) HOURS

**INSTRUCTIONS:** ANSWER ANY FOUR (4) QUESTIONS

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CHIEF INVIGILATOR**

**QUESTION 1**

Using **TWO (2)** examples for each, define and explain how the following relationships influence populations:

- (a) Mutualism (10 Marks)  
(b) The **TWO (2)** types of competition (15 Marks)

**QUESTION 2**

- (a) What is resource partitioning? (7 Marks)  
(b) Fully describe **ONE (1)** good example of resource partitioning. (18 Marks)

**QUESTION 3**

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

**QUESTION 4**

Write short notes on some of the important practical implications of nutrient cycles. (25 Marks)

**QUESTION 5**

Briefly discuss the climatic variations that influence species richness. (25 Marks)