



**UNIVERSITY OF SWAZILAND**

**1<sup>st</sup> SEM. 2015/2016**

**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**

Fully describe the role played by the following in the web of life:

- (i) Producers
- (ii) Scavengers, detritivores and decomposers. (25 Marks)

**QUESTION 2**

- (a) Differentiate between obligate and facultative mutualism. (5 Marks)
- (b) Using **THREE** examples fully explain how mutualistic interactions improve productivity of organisms. (20 Marks)

**QUESTION 3**

- (a) Define and describe (i) natural and (ii) human induced disturbances. (9 Marks)
- (b) Outline **EIGHT** processes of primary succession. (16 Marks)

**QUESTION 4**

Using the “intermediate disturbance hypothesis”, clearly explain how plants are able to coexist and survive despite plant competition. (25 Marks)

**QUESTION 5**

Give an account of the value of biodiversity to humans. (25 Marks)