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UNIVERSITY OF SWAZILAND

1st SEM. 2017/2018

RE-SIT EXAMINATION PAPER

PROGRAMME: B.Sc. ANIMAL SCIENCE YEAR 1 AND B.Sc. 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

**DO NOT OPEN THIS PAPER UNTIL PERMISSION HAS BEEN GRANTED BY THE
CHIEF INVIGILATOR**

QUESTION 1

- (a) Define mutualism. **(5 Marks)**
- (b) Describe the mutualistic interaction of:
 - (i) Leguminous plant and *Rhizobium* species, and **(15 Marks)**
 - (ii) Bees and flowers **(5 Marks)**

QUESTION 2

Write short notes on the six (6) animal organisms' influence on plants. **(25 Marks)**

QUESTION 3

Give an outline of some of the important practical implications of nutrient cycles. **(25 Marks)**

QUESTION 4

Differentiate between density-dependent and density-independent factors. **(25 Marks)**

QUESTION 5

- (a) With examples, give an outline of carrying capacity as viewed in ecology. **(20 Marks)**
- (b) How are populations described in terms of density and abundance? **(5 Marks)**