



2nd SEMESTER 2010/2011

PAGE 1 OF 2

**UNIVERSITY OF SWAZILAND
FINAL EXAMINATION PAPER**

PROGRAMME : B. SC. IN ANIMAL SCIENCE YEAR IV

COURSE CODE : APH 409

TITLE OF PAPER : PRINCIPLES OF WILDLIFE MANAGEMENT

TIME ALLOWED : TWO HOURS

INSTRUCTIONS : ANSWER ANY FOUR QUESTIONS

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

QUESTION ONE

Compare between:

- a) Density- Dependent and density-independent effects (5 Marks)
- b) Actual and theoretical niche (5 Marks)
- c) Food chain and food web (5 Marks)
- d) Commensalism and parasitism (5 Marks)
- e) Positive and negative feedback (5 Marks)

QUESTION TWO

Explain clearly the following:

- a) Synecology (5 Marks)
- b) Disadvantages of Sustained cropping (5 Marks)
- c) Evolution of Herbivores (5 Marks)
- d) Darting (5 Marks)
- e) Characteristics of ecosystem (5 Marks)

QUESTION THREE

Draw with label the following:

- a) Homeostatic control of population growth (5 Marks)
- b) Stabilizing selection (5 Marks)
- c) Growth curve of population growth (5 Marks)
- d) Relationship of nutritional groups in ecosystem (5 Marks)
- e) Survivorship curve (5 Marks)

QUESTION FOUR

Give an account of the following:

- a) Estimating the population size (10 Marks)
- b) African Swine disease (5 Marks)
- c) Wildlife law (10 Marks)

QUESTION FIVE

Give an example of the following items:

- a) Predation-prey interactions (5 Marks)
- b) Mutualism (5 Marks)
- c) Lunar rhythms (5 Marks)
- d) Species competition (5 Marks)
- e) Primary succession (5 Marks)