



UNIVERSITY OF SWAZILAND

1ST SEM. 2013/2014

PAGE 1 OF 3

FINAL EXAMINATION PAPER

PROGRAMME: B.Sc. ANIMAL SCIENCE III

COURSE CODE: AS 306

TITLE OF PAPER: PRINCIPLES OF WILDLIFE MANAGEMENT

TIME ALLOWED: TWO (2) HOURS

INSTRUCTIONS: ANSWER FOUR (4) QUESTIONS, TWO
QUESTIONS (2) FROM EACH SECTION

**THIS PAPER MAY NOT BE OPENED UNTIL THE CHIEF
INVIGILATOR HAS GRANTED PERMISSION**

69

SECTION A

QUESTION 1

Discuss the methods that can be used to estimate wild animal population size. [25 Marks]

QUESTION 2

Describe the key habitat requirements of wildlife animals. [25 Marks]

QUESTION 3

(a) Define the following wildlife terms:

- (i) Population density [2 Marks]
- (ii) Scavenger [2 Marks]
- (iii) Estivate [2 Marks]
- (iv) Water dependent animals [2 Marks]
- (v) Vulnerable species [2 Marks]

(b) Briefly discuss the techniques that are used in capturing wildlife species. [15 Marks]

SECTION B

PAGE 3 OF 3

QUESTION FOUR

Compare and contrast:

- 1- Edaphic and biotic factors limiting the distribution of species [5 Marks]
- 2- Food chain and food web [5 Marks]
- 3- Annual and lunar rhythms [5 Marks]
- 4- Nets and darting [5 Marks]
- 5- Transmission of African swine disease and Anthrax [5 Marks]

QUESTION FIVE

- 1- Draw and label the survivorship curve [5 Marks]
- 2- Give an example of Disruptive selection [5 Marks]
- 3- Give an account of chemical defences in animals [5 Marks]
- 4- Define: Muellierian mimicry [5 Marks]
- 5- Discuss the clinical symptoms of Rabies [5 Marks]

QUESTION SIX

- 1- Give an examples of primary successions [5 Marks]
- 2- What are the disadvantages of sustained cropping? [5 Marks]
- 3- Give an account of the control of Blue Tongue disease [5 Marks]
- 4- List the examples of exploitation of the ecosystem [5 Marks]
- 5- Explain clearly the wildlife laws [5 Marks]