



MAASAI MARA UNIVERSITY

REGULAR UNIVERSITY EXAMINATIONS

2018/2019 ACADEMIC YEAR

FIRST YEAR SECOND SEMESTER

**SCHOOL OF TOURISM & NATURAL RESOURCES
MANAGEMENT**

**DIPLOMA IN TOURISM AND WILDLIFE
MANAGEMENT**

COURSE CODE: NDTW 122

COURSE TITLE: INTRODUCTION TO HERPETOLOGY

DATE: DECEMBER 10, 2018

TIME: 8:30 A.M. – 10:30 A.M.

INSTRUCTION TO CANDIDATES

This paper has two sections A & B.

Answer question **ONE** in section A and any **TWO** in section B.

SECTION A: QUESTION ONE IS COMPULSORY (30mks)

QUESTION 1

- (i) While giving examples describe how reptiles are adapted to life on the ground. (6mks)
- (ii) State **five** distinguishing features between the toads and salamanders. (5mks)
- (iii) Describe **five** general characteristics of Amphibians (5mks)
- (iv) Briefly explain the differences and similarities between reptiles and amphibians. (5mks)
- (v) Reptiles have greatly colonized land habitats than their predecessor. Give three reasons. (3mks)
- (vi) Describe the various ways in which herptiles catch and subdue their prey. (4mks)
- (vii) Explain **two** ways in which aquatic reptiles are adapted to life in the water. (2mks)

SECTION B: ANSWER ANY TWO QUESTIONS (40MKS)

QUESTION 2

- (i) Amphibians use their skin for cutaneous respiration. How is the skin adapted for this function? (2mks)
- (ii) Briefly explain the importance of water to the life cycle of amphibians. (3mks)
- (iii) Describe the distinguishing features members of order Gymnophiona. (5mks)
- (iv) State the differences between the adult stage and larval stage of amphibian (5mks)
- (v) Describe **five** general characteristics of reptiles (5mks)

QUESTION 3

- (i) Briefly describe the nervous system of a named amphibian. (4mks)
- (ii) Distinguish between internal and external fertilization. (2mks)
- (iii) Other than order Crocodilia state other three orders of class reptilia (3mks)
- (iv) Snake and lizards belong to the same order however they exhibit some differences. State these four differences (4mks)
- (v) What are the ecological importances of reptiles to humans? (4mks)
- (vi) Crocodiles have four chambered heart like mammals however they are classified as reptiles. State three characteristics that qualify them as reptiles. (3mks)

QUESTION 4

- (i) Briefly discuss the evolution of amphibians. (4mks)
- (ii) What is Eutrophication? (2mks)
- (iii) Explain the effects of eutrophication and state how it affects the life of amphibians. (4mks)
- (iv) Describe five distinguishing features of class Crocodilia. (5mks)
- (v) State **two** similarities between the snakes and lizards. (2mks)
- (vi) Briefly explain three defense mechanisms used by Reptiles. (3mks)

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