



**MAASAI MARA UNIVERSITY
REGULAR UNIVERSITY EXAMINATIONS
2018/2019 ACADEMIC YEAR
FIRST YEAR SECOND SEMESTER
SCHOOL OF TOURISM OF TOURISM &
NATURAL RESOURCE MANAGEMENT
DIPLOMA IN TOURISM AND WILDLIFE
MANAGEMENT
COURSE CODE: NDTW 121
COURSE TITLE: NATURAL HISTORY OF
INVERTEBRATES**

DATE: 15.4.2019

TIME: 8.30AM - 10.30AM

INSTRUCTION TO CANDIDATES

This paper has two sections A & B.

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

SECTION A: ANSWER ALL QUESTIONS (30MKS)

QUESTION 1

- (i) Briefly explain the following terms: **(2mks)**
(a) Sexual dimorphism.
(b) Polymorphic
- (ii) State the function of the following structures found in invertebrates: **(3mks)**
(a) Ctenidia
(b) Radula
(c) Clitellum
- (iii) Describe the distinguishing features of members of phylum porifera. **(4mks)**
- (iv) Explain the general characteristics of invertebrates **(6mks)**
- (v) In what ways are Annelids the most advanced worms? **(5mks)**
- (vi) While giving examples describe the distinguishing features of phylum Cnidaria **(10mks)**

SECTION B: ANSWER ANY TWO QUESTIONS (40MKS)

QUESTION 2

- (i) Explain the distinguishing characteristics of phylum Mollusca **(10mks)**
- (ii) Name and highlight the key features of the classes of phylum Mollusca **(7mks)**
- (iii) Nematodes and Arthropods are in super phylum Ecdysozoa. State **one** similarity and **two** differences between them **(3mks)**

QUESTION 3

- (i) Explain the general characteristics and economic importance of phylum Nemertea **(6mks)**

- (ii) Identify and briefly describe the characteristics of the classes of phylum Platyhelminthes **(8mks)**
- (iii) Describe the general characteristics of Rotifers **(6mks)**

QUESTION 4

- (i) *Caenorhabditis elegans* is a nematode that has been used greatly in biological research. Give **five** reasons for this **(5mks)**
- (ii) While giving an example in each case name and describe four sub-phyla of the living forms in phylum arthropoda **(12mks)**
- (iii) What are the distinguishing features of phylum arthropoda **(3mks)**

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