



MAASAI MARA UNIVERSITY

**REGULAR UNIVERSITY EXAMINATIONS
2023/2024 ACADEMIC YEAR
THIRD YEAR FIRST SEMESTER**

**SCHOOL OF NATURAL RESOURCES
GEOGRAPHY AND AGRICULTURE
BACHELOR OF SCIENCE WILDLIFE
MANAGEMENT**

COURSE CODE: WRM 3123

COURSE TITLE: COMPARATIVE PHYSIOLOGY

DATE: 05/12/23

TIME: 1100-1300 HRS

Instructions

- Answer **All** questions in **Section A** and **ANY TWO** in **Section B**
- Illustrate your answers with suitable diagrams and give appropriate examples wherever necessary

SECTION A: ANSWER ALL QUESTIONS (30 MARKS.)

1. State three characteristics of a cell. **(3marks)**
2. Outline three microbiological techniques used in preservation of specimen. **(3marks)**
3. Name three types of connective tissues in living organisms. **(3marks)**
4. Distinguish between endotherms and ectotherms and cite an example. **(3marks)**
5. State three functions of water in the body. **(3marks)**
6. State three types of biological/ endogenous rhythms. **(3marks)**
7. Name three types of neurons. **(3marks)**
8. State three functions of medulla oblongata part of the brain. **(3marks)**
9. Outline three adaptations of the alveoli for the process of gaseous exchange. **(3marks)**
10. Outline three ways in which thermodynamic entropy can be increased. **(3marks)**

SECTION B (40 MARKS): ANSWER ANY TWO QUESTIONS

11. Compare step by step, the process of digestion in human beings and that of a rabbit. **(20marks)**
12. Explain how the heart of a mammal works. **(20marks)**
13. Explain how water intake and output is regulated in the body of an organism. **(20marks)**
14. Explain the process of inspiration and expiration in human beings. **(20marks)**

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