



# **MAASAI MARA UNIVERSITY**

**REGULAR UNIVERSITY EXAMINATIONS  
2022/2023 ACADEMIC YEAR  
THIRD YEAR SECOND SEMESTER**

**SCHOOL PURE APPLIED AND HEALTH  
SCIENCES  
BACHELOR OF SCIENCE IN WILDLIFE  
MANAGEMENT**

**COURSE CODE: WRM 3123-1  
COURSE TITLE: COMPARATIVE VERTEBRATE  
PHYSIOLOGY**

**DATE: 24/4/2023**

**TIME: 1100-1300 HRS**

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## **INSTRUCTIONS TO CANDIDATE**

ANSWER ALL QUESTIONS IN SECTION A AND ANY TWO IN SECTION B.  
ILLUSTRATE YOUR ANSWERS WITH SUITABLE DIAGRAMS AND GIVE  
EXAMPLES WHEREVER NECESSARY.

**Section A (30 marks). Answer ALL questions.**

1. Give THREE primary tissue types. **(3mks)**
2. State THREE functions of animal cell. **(3mks)**
3. Distinguish among mucous membrane, connective and striated tissues. **(3mks)**
4. Give THREE functions of kidney nephron. **(3mks)**
5. List THREE parts of colon. **(3mks)**
6. Highlight the THREE importance of liver. **(3mks)**
7. Define the term Selective reabsorption. **(3mks)**
8. Distinguish between excretion and secretion, citing an example in each. **(3mks)**
9. Differentiate between oestrogen, testosterone and androgen. **(3mks)**
10. Give THREE importance of cell membrane. **(3mks)**

**SECTION B: 40 marks. Answer TWO questions.**

11. Write notes on how biological rhythms work. **(20marks)**
12. Write an essay on the focus of thermodynamics in biology. **(20marks)**
13. Explain how human hearth works. **(20marks)**
14. Discuss the human digestive system. **(20marks)**

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