



# **MAASAI MARA UNIVERSITY**

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

**SCHOOL OF NATURAL RESOURCES, TOURISM  
AND HOSPITALITY**

**BACHELOR OF SCIENCE IN ANIMAL HEALTH  
AND PRODUCTION**

**COURSE CODE: AHP 1105-1**

**COURSE TITLE: ANIMAL PHYSIOLOGY**

**DATE: 1/2/2024**

**TIME: 1430-1730 HRS**

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**INSTRUCTIONS TO CANDIDATES**

Answer **ALL** questions

*This paper consists of 3 printed pages. Please turn over*

Answer all questions

**ANIMAL PHYSIOLOGY [120 Marks]**

- 1 Define the following terms; ( 2 mks each)
  - a. Active transport
  - b. Facilitated diffusion
  - c. Pinocytosis
  - d. Hypertonic solution
  - e. Isotonic solution
  - f. Haemolysis
  - g. Osmotic pressure
  - h. Phagocytosis
  - i. Exocytosis
  - j. Hypotonic solution
- 2 Describe body tissues under the following sub-headings;
  - a. Connective tissue (4 mks)
  - b. Epithelial tissue (4 mks)
  - c. Nervous tissue (4 mks)
  - d. Muscle tissue (8 mks)
- 3 Describe nervous system under the following sub-headings;
  - a. The cranial nerves (8 mks)
  - b. Spinal nerves (4 mks)
  - c. Sympathetic system ( 4 mks)
  - d. Parasympathetic system (4 mks)
- 4 Discuss neurons and receptors under the following sub-headings:
  - a. Draw and label a neuron (8 mks)
  - b. Name and state the functions of the different types of neurons (6 mks)
  - c. Name and state the function of any 3 sensory receptors (6 mks)
- 5 Explain the following;
  - a. Metabolic alkalosis (4 mks)
  - b. Metabolic acidosis (4 mks)
  - c. Respiratory acidosis (4 mks)
  - d. Respiratory alkalosis (4 mks)
  - e. Positive feedback (4 mks)
6. Discuss body fluids under the following sub-headings;
  - a. Describe classification of body fluids (10 mks).
  - b. State four components of body fluids (4 mks).
  - c. State six functions of body fluids (6 mks)

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