

Uganda Martyrs University
FACULTY OF EDUCATION
END OF SEMESTER ONE EXAMINATIONS 2021/2022
BACHELOR OF SCIENCE WITH EDUCATION
DEPARTMENT OF SCIENCE
YEAR THREE
BSIO 3101 ANIMAL PSYCHOLOGY



17th January 2022

Time: 9:30AM- 12:30PM 3hours

INSTRUCTIONS:

1. *Carefully read through ALL the questions before attempting*
 2. *Answer all questions in section A and B, plus 2 questions from C*
 3. *No names should be written anywhere on the examination booklet.*
 4. *Ensure that your registration number is indicated on all pages of the examination answer booklet.*
 5. *Ensure your work is clear and readable. Untidy work shall be penalized*
 6. *Any type of examination Malpractice will lead to automatic disqualification*
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SECTION A (Attempt ALL Questions)

- 1) Which of the following is not a form of heterotrophic nutrition
 - a. Saprophytism
 - b. Chemosynthesis
 - c. Holozoic nutrition
 - d. Omnivore based
- 2) Which of the following is not a surface for gaseous exchange in amphibians
 - a. Buccal cavity
 - b. Skin
 - c. Lungs
 - d. Anus
- 3) Which of the following blood components is used in clotting process;
 - a. Platelets
 - b. Erythrocytes
 - c. Lymphocytes
 - d. T- killer cells
- 4) Which of the following is not part of the central nervous system in man;
 - a. Brain

- b. Spinal cord
- c. Nerves
- d. Medulla oblongata

5) is the actual part of the respiratory system where gaseous exchange takes place from;

- a. Alveoli
- b. Lungs
- c. Diaphragm
- d. Rib cage

SECTION B (Attempt ALL Questions)

6) Define the following;

- | | |
|--------------|---------|
| a. Carnivore | 2 marks |
| b. Omnivore | 2 marks |
| c. Herbivore | 2 marks |

7) a. Write short notes about the significance of excretion in animals. 4 marks

B. What's the significance of a short nephron in animals living in arid conditions? 3 marks

8) A. Outline the uses of locomotion in animals 4 marks

b. Outline the general functions of the skeleton in vertebrates 5 marks

9) a. Outline the two mechanisms used by insects to achieve locomotion. 2 marks

b. Briefly discuss the concept of antagonistic muscles in animals. 3 marks

10) a. Outline the role of antibodies to animal immunity. 3 marks

b. Briefly discuss the mechanism of natural immunity in man. 4 marks

SECTION C (Attempt at least TWO Questions)

11) Discuss the mechanism of feeding, reproduction and movement in;

- a. Worms **10 marks**
- b. Insects **10 marks**

12) Using the necessary illustrations, discuss the process of urine formation in man. **20 marks**

13) a. Outline the 3 major surfaces used by amphibians in carrying out gaseous exchange.

3 marks

b. Discuss the ventilation mechanism in amphibians.

17 marks

14) a. Discuss the structural adaptations of erythrocytes that help them to maximally carry out their functions. **8 marks**

b. Discuss the process of blood clotting in man.

12 marks

END