GWANDA STATE UNIVERSITY



FACULTY OF LIFE SCIENCES

DEPARTMENT OF ANIMAL SCIENCES

BACHELOR OF SCIENCE HONOURS DEGREE IN ANIMAL SCIENCE

ANIMAL ANATOMY AND PHYSIOLOGY 1

LAS 1102

First Semester Final main Examination Paper

June 2019

This examination paper consists of 3 pages

Time Allowed: 3 hours

Total Marks: 100

Special Requirements: None

Examiner's Name: Dr B. Moyo

INSTRUCTIONS

1. Answer all questions in Section A

2. Answer only two questions in Section B

MARK ALLOCATION

| QUESTION | MARKS |
|------------------------|-------|
| SECTION A | 60 |
| SECTION B | 40 |
| TOTAL ATTAINABLE MARKS | 100 |

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SECTION A: ANSWER ALL QUESTIONS IN THIS SECTION

QUESTION 1

| | | i. ii. | discuss the following: Pinocytosis. Phagocytosis. f discuss the following organelles. Mitochondria. The Nucleus. Endoplasmic reticulum. Ribosomes. | [5] [5] [3] [3] [2] [2] | |
|--|----|-----------------|---|--|--|
| QUESTION 2 a. Outline 7 functions of the bones. b. With the aid of a diagram describe the long bone. Question 3 a. Name any 5 body systems and describe them. b. Briefly describe the skin. | | | | | |
| SECTION B: ANSWER ONLY TWO QUESTIONS | | | | | |
| QUESTION 4 | | | | | |
| | b. | positio Name | ertebral column is divided into five regions. State their region and their region in the body. the bones in the hind limb. are the following joints located? i) The stifle joint. ii) The elbow joint. iii) The hock joint. | spective [10] [7] [3] | |
| ΟÜ | ES | TION : | 5 | | |
| a. | | | nethods that could be used for pregnancy diagnosis in cattle. | [10] | |
| b . | | State a | and briefly describe any 5 different types of epithelium. | [10] | |

QUESTION 6

- a. i. How does the blood help fight invasion by bacteria and viruses?
 ii. With the aid of diagram describe the synovial Joint.
 iii. How does the attraction of the about it replaces and the action of the about it replaces are formed.
 - iii. How does the structure of the alveoli make gas exchange efficient? [3]
- b. State the functions of blood in an animal's body. [7]

QUESTION 7

- a. Liver plays an important role in the animal body. Discuss. [10]
- b. Describe the effects of the action of the sympathetic nervous system in response to a threat. [10]

END OF EXAMINATION