

GWANDA STATE UNIVERSITY



FACULTY OF NATURAL RESOURCES MANAGEMENT AND AGRICULTURE

DEPARTMENT OF ANIMAL PRODUCTION AND HEALTH

BACHELOR OF SCIENCE HONOURS DEGREE IN ANIMAL SCIENCE

ANIMAL ANATOMY AND PHYSIOLOGY OF FARM ANIMALS

NAP 1202

Semester 2 Examination

April 2024

This examination paper consists of **three** printed pages

Time Allowed: 3 hours
Total Marks: 100
Special Requirements: None
Examiner's Name: Mr D Mlilo

INSTRUCTIONS TO CANDIDATES

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

SECTION A: ANSWER ALL QUESTIONS

Question 1

(a) A fracture is defined as the break in the continuity of a bone. Write short notes in the following types of fractures

- i. Simple; [2]
- ii. Complete; [2]
- iii. Greenstick; [2]
- iv. Compound; [2]
- v. Comminuted. [2]

(b) Describe microbial digestion in animals [10]

Question 2

Describe the morphology of the following blood components and how these features enables to perfectly perform their functions

- a) Erythrocytes (Red blood cells) [10]
- b) Platelets (Thrombocytes) [10]

Question 3

- a) Briefly discuss the general characteristics of hormones [8]
- b). Discuss 3 (three) classifications of hormones [12]

SECTION B: ANSWER ANY TWO (2) QUESTIONS FROM THIS SECTION

- 4. Discuss the composition of the axial skeleton [20]
- 5. Discuss the composition and function of respiratory system in mammals [20]
- 6. Briefly discuss the functions of the components of the female reproductive tract [20]

7. Write short notes on the following:

- a) Reticulo-rumen; [5]
- b) Abomasum; [5]
- c) Small intestines; [5]
- d) Oesophageal groove. [5]

END OF QUESTION PAPER