



JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY
SCHOOL OF HEALTH SCIENCES
UNIVERSITY EXAMINATION FOR DEGREE OF BACHELOR OF SCIENCE PUBLIC
HEALTH / COMMUNITY HEALTH AND DEVELOPMENT
2ND YEAR 2ND SEMESTER 2023/2024 ACADEMIC YEAR
MAIN

COURSE CODE: HBB 9204

COURSE TITLE: ANATOMY AND PHYSIOLOGY OF FOOD ANIMALS

EXAM VENUE: **STREAM: (BSc. Env. Hlth)**

DATE: **EXAM SESSION:**

TIME: 2.00 HOURS

Instructions:

- 1. Answer ALL questions in Section A and B and ANY other TWO questions in Section C**
- 2. Indicate the most correct alternative in Section A**
- 3. Answers to Questions in Section B and C must be written in the spaces provided on the question paper.**
- 4. Candidates must ensure they submit their work by clicking “finish and submit attempt” button at the end.**



Registration No.....

SECTION A: 20 Marks (Each question carries 1 mark)

Indicate whether the statement is TRUE or FALSE.

1. Histology is the study of the history of anatomy.
2. The Nucleolus is situated within the cytoplasm of the cell.
3. The endocrine system in food animals is primarily composed of blood vessels.
4. 'Regulation of body temperature' is one of the functions of the digestive system in food animals.
5. Lysosomes are found within the cell nucleus.
6. The large intestine is the primary site of nutrient absorption in food animals.
7. Ribosomes have a role in protein synthesis.
8. Bones can be broadly classified into four types.
9. The liver is responsible for the production of bile, which aids in the digestion of fats in food animals.
10. The integumentary system in food animals is primarily composed of nerves.
11. Somatic nerves are found outside the central nervous system.
12. The urinary system in food animals is responsible for producing hormones for growth.
13. The cecum in food animals is an important site for water re-absorption.
14. The reproductive system in food animals is responsible for producing offspring.
15. Gross anatomy refers to the study of big body structures using an Electron microscope.
16. Ureters are responsible for transporting urine from the bladder to the kidneys.
17. Body structures and functions are interdependent.
18. Homeostasis is the maintenance of the external environment of the body.
19. Enzymes are made up of living cells.
20. Mature female poultry have two functional ovaries.

SECTION B: 30 Marks

Attempt all questions in this section. Answers to questions in this section must be written in the spaces provided. Answers must be precise and concise.

1. Describe the structure and function of the rumen in ruminant animals and explain its role in the digestion of plant material (15 marks).
2. Describe the structure and function of three basic body tissues (15 marks).

SECTION C: 20 Marks

There are a total of three (3) questions. Answer any **two (2)** questions.



Registration No.....

1. Discuss the types of skin appendages in Food Animals (10 marks).
2. Discuss the sources and functions of three types of hormones (10 marks).
3. Compare and contrast the digestion in Ruminants with that in Mono-Gastric animals (10 marks).