

UNIVERSITY EXAMINATIONS

1ST SEMESTER 2022/2023 ACADEMIC YEAR

**THIRD YEAR EXAMINATION FOR THE DEGREES
BACHELOR OF SCIENCE (GENERAL)/BACHELOR OF
EDUCATION (SCIENCE)**

ZOOL 311: ANIMAL PHYSIOLOGY

STREAM: R

TIME: 2 HRS

DAY: TUES [14.30 – 16.30]

DATE: 20/12/2022

THIS QUESTION PAPER CONSISTS OF TWO (2) PAGES

PLEASE DO NOT OPEN UNTIL THE INVIGILATOR SAYS SO.

SECTION A (40MKS): ANSWER ALL QUESTIONS

QUESTION ONE

Distinguish between tissue and chemical levels of structural Organization in the body. (6 marks)

QUESTION TWO

Explain how an electrical impulse moves through a neuron in an animal's body. (6 marks)

QUESTION THREE

Distinguish between peptide hormones and steroid hormones and give examples. (10 marks)

QUESTION FOUR

Explain the function of antigens in the red blood cells. (5 marks)

QUESTION FIVE

Describe the structure and the role of the human Stomach. (8 marks)

QUESTION SIX

Explain why the liver is an important organ of homeostasis. (5 marks)

SECTION B: ANSWER ANY TWO QUESTIONS (30MKS)

QUESTION SEVEN

Discuss the Organ system level in the structural organization of a human body. (15 marks)

QUESTION EIGHT

Describe the structure and functions of the Central Nervous System. (15 marks)

QUESTION NINE

(a) Describe the reproductive support structures within the womb as the embryo develops in humans. (10 marks)

(b) Explain the functions of the skin in the human body. (5 marks)