



(Knowledge for Development)

KIBABII UNIVERSITY

UNIVERSITY EXAMINATIONS 2019/2020 ACADEMIC YEAR

SECOND YEAR FIRST SEMESTER SPECIAL/SUPPLEMENTARY EXAMINATIONS

FOR THE DEGREE OF BACHELOR OF SCIENCE

COURSE CODE: SZL 212

COURSE TITLE: INTRODUCTION TO ANIMAL PHYSIOLOGY


DATE: 11th February, 2021

TIME: 8.00-10.00 AM.

INSTRUCTIONS TO CANDIDATES

Answer question **ONE [1]** and **ANY** other **TWO [2]** questions

TIME: 2 Hours

This paper consists of 2 printed pages. Please Turn Over 

KIBUCO observes ZERO tolerance to examination cheating

Question 1

a). Define the following terms as used in Animal physiology

- i). Feedback (3 MARKS)
- ii). Receptors (2 MARKS)
- iii). Sensory adaptation (4 MARKS)
- iv). Spermatogenesis (3 MARKS)

b). **Explain** the three main components of self-regulating control system (6 MARKS)

c). **List** four differences in nerves and hormones with regard to their role in carrying messages and signals to various effectors. (4 MARKS)

d). Describe types of senses by structural design (4 MARKS)

e). State the disadvantages of negative feedback (4 MARKS)

Question 2

Blood is found in the cardiovascular system of animals. Explain the functions of the main components of blood (20 MARKS)

Question 3

Reproductive system is one of the distinct principal organ systems in physiological systems. Explain the main functions of reproductive in man. (20 MARKS)

Question 4

Explain the isometric and isotonic contractions; clearly indicating which label better applies to the activity of the leg muscles during running. (20MARKS)

Question 5

Explain the physiological functions of the antidiuretic hormone in the homeostatic regulation of water levels in the body (20 MARKS)