



(Knowledge for Development)

KIBABII UNIVERSITY COLLEGE

**(A CONSTITUENT COLLEGE OF MASINDE MULIRO
UNIVERSITY OF SCIENCE AND TECHNOLOGY)**

UNIVERSITY EXAMINATIONS 2021/2022 ACADEMIC YEAR

THIRD YEAR SECOND SEMESTER

SPECIAL/SUPPLEMENTARY EXAMINATIONS FOR THE DEGREE OF BACHELOR OF SCIENCE

COURSE CODE: SBT 321

COURSE TITLE: ANIMAL PHYSIOLOGY

DATE: 17TH NOVEMBER 2022

TIME: 2.00 -4.00 PM

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



KIBU observes ZERO tolerance to examination cheating

QUESTION ONE

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 TWO

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

QUESTION THREE

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

QUESTION FOUR

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

QUESTION FIVE

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