



(Knowledge for Development)

KIBABII UNIVERSITY
UNIVERSITY EXAMINATIONS
2021 / 2022 ACADEMIC YEAR

THIRD YEAR SECOND SEMESTER
MAIN EXAMINATIONS

FOR THE DEGREE OF BACHELOR OF SCIENCE

COURSE CODE: SBT 321

COURSE TITLE: ANIMAL PHYSIOLOGY

DATE: Friday 2nd September, 2022. **TIME:** 2:00 – 4:00 P.M.

INSTRUCTIONS TO CANDIDATES

Answer Question one (1) and any other two (2) Questions. Question one carries 30 marks, the other Questions carry 20 marks each.

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). Sensory physiology (3 MARKS)
 - ii). Gametogenesis (2 MARKS)
 - iii). Positive feedback (3 MARKS)
 - iv). Acuity (3 MARKS)
- b). Name **five** functional types of sensory receptors (5 MARKS)
- c). **Give** reasons why the homeostatic mechanism is referred to as a negative feedback (4 MARKS)
- d). **List** four types of special senses (4 MARKS)
- e). Explain the main components of a homeostatic mechanism (6 MARKS)

QUESTION TWO

State the main types of white blood cells and clearly explain their specific functions in body defense. (20 MARKS)

QUESTION THREE

Explain the physiology of female hormonal control during menstruation. (20 MARKS)

QUESTION FOUR

Explain the major steps in sensation (20 MARKS)

QUESTION FIVE

Using the concept of balance in homeostasis, explain how the body regulates its own blood sugar (20 MARKS)