



(Knowledge for Development)

KIBABII UNIVERSITY

UNIVERSITY EXAMINATIONS 2020/2021 ACADEMIC YEAR

THIRD YEAR SECOND SEMESTER MAIN EXAMINATIONS

FOR THE DEGREE OF BACHELOR OF EDUCATION SCIENCE

COURSE CODE:

SBT 321.

COURSE TITLE:

ANIMAL PHYSIOLOGY

DATE:

FRIDAY 8TH OCTOBER, 2021

TIME: 2:00-4:00 P.M.

INSTRUCTIONS TO CANDIDATES

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

TIME: 2 Hours

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QUESTION ONE

a) Using a suitable example, explain the concept of positive feedback mechanism. (5 Marks)

b) Provide the differences between the composition of the Plasma Volume (PV) and Interstitial Fluid (ISF). (5 Marks)

c) Explain how glucose enters the cell. (5 Marks)

d) Differentiate between Larvivorous and Sanguivorous animals giving examples in each case. (5 Marks)

e) State the organs of respiration in the following animal kingdoms: Echinodermata, Annelida, Hemichordata, Mollusca and Porifera.

(5 Marks)

f) Briefly describe the changing hormone levels associated with menopause. (5 Marks)

QUESTION TWO

a) Describe the Special Respiratory movements. (10 Marks)

b) Explain the factors that affect the oxygen disassociation curve.

(10 Marks)

OUESTION THREE

a) Describe the different ways on how the Heart Beat can be regulated.

(10 Marks)

b) Describe the components of an Electro cardiogram

(10 Marks)

OUESTION FOUR

Write brief notes on Protein Metabolism.

(20 Marks)

QUESTION FIVE

Describe the generation of a nerve impulse in conduction

(20 Marks)