

OFFICE OF THE DEPUTY PRINCIPAL ACADEMICS, STUDENT AFFAIRS AND RESEARCH

UNIVERSITY EXAMINATIONS 2021 /2022 ACADEMIC YEAR

THIRD YEAR FIRST SEMESTER REGULAR EXAMINATION

FOR THE DEGREE OF BACHELOR OF EDUCATION SCIENCE

COURSE CODE:

ZOO 300E

COURSE TITLE:

ANIMAL PHYSIOLOGY

DATE:

28TH JANURY 2022

TIME:

12.00PM - 05.00PM

INSTRUCTIONS TO CANDIDATES

SEE INSIDE

THIS PAPER CONSISTS OF 3 PRINTED PAGES

PLEASE TURN OVER

ZOO 300E

REGULAR - MAIN EXAM

ZOO 300E: ANIMAL PHYSIOLOGY

STREAM: BED (SCIENCE)

DURATION: 3 Hours

INSTRUCTIONS TO CANDIDATES

- i. Answer ALL questions from section A and any FOUR from section B.
- ii. Diagrams should be used whenever they serve to illustrate the answer.
- iii. Do not write on the question paper.

SECTION A (30 MARKS)

Question One

a)	State the difference between a Eukaryotic and a Prokaryotic cell.	(2 Marks)
b)	Draw a well labeled diagram of an animal cell.	(4 Marks)
c)	Outline the FOUR main functions of lysosomes.	(4 Marks)
d)	Give the functions of centrioles in a cell.	(3 Marks)
e)	Describe the structure of mitochondria.	(2 Marks)

Question Two

a) Compare and contrast the composition of the Extra Cellular Fluids (ECF) and the Intra Cellular Fluids (ICF).

(4 Marks)

b) Describe how fluids move across the various fluid compartments.

(4 Marks)

c) Distinguish between equilibrium and steady state in relation to homeostasis.

(2 Marks)

d) Describe the reflex control of homeostasis.

(5 Marks)

SECTION B (40 MARKS)

Question Three

a) Describe the structural organization of a mammalian body.

(4 Marks)

b) Describe the changes that occur on a neuron membrane during the action potential.

(6 Marks)

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a). Illustrate the dermis region of the integument.	(4 Marks
b). Highlight any SIX functions of the integument.	(6 Marks
Ç	Question Five	
a). Name:	
	i. Two bones of the appendicular skeleton.	(2 Marks)
	ii. Two bones of the axial skeleton.	(2 Marks)
b)	. Briefly distinguish the THREE types of muscles.	(6 Marks)
Q	uestion Six	
a). Describe the structure of the ear.		(4 Marks)
b)	. State THREE common eye defects in human. In each case give the corrections.	(6 Marks)
Q	uestion Seven	
a)	Describe the human male reproductive system.	(5 Marks)
b)	Describe the internal structure of the human heart.	(5Marks)
