

OFFICE OF THE DEPUTY PRINCIPAL ACADEMICS, STUDENT AFFAIRS AND RESEARCH

UNIVERSITY EXAMINATIONS 2020 /2021 ACADEMIC YEAR

FIRST YEAR SECOND SEMESTER MAIN EXAMINATION

FOR THE DEGREE OF BACHELOR OF EDUCATION SCIENCE

COURSE CODE:

ZOO 112E

COURSE TITLE:

VERTEBRATE ZOOLOGY

DATE:

27TH JULY, 2021

TIME: 01.00 PM - 04.00 PM

INSTRUCTIONS TO CANDIDATES

SEE INSIDE

THIS PAPER CONSISTS OF 3 PRINTED PAGES

PLEASE TURN OVER

ZOO 112E

REGULAR - MAIN EXAM

ZOO 112E: VERTEBRATE ZOOLOGY

STREAM: BED (SCIENCE) DURATION: 3 Hours	
INSTRUCTIONS TO CANDIDATES	
i. Answer ALL questions from section A and any THREE from	section B.
ii. Diagrams should be used whenever they serve to illustrate the	e answer.
iii. Do not write on the question paper.	
	5 X 3 & 2
SECTION A (24 MARKS)	
Question One	
a) List the features of the Phylum Chordata.	(4 Marks)
b) Describe osmoregulation in class Osteichthyes.	(4 Marks)
c) Describe four differences between a toad and a frog.	(4 Marks)
Question Two	
a) State the reptilian adaptations for terrestrial existence.	(4 Marks)
b) List anatomical modification in birds that enhances flight.	(4 Marks)
c) Explain how agnathans differ from other fishes.	(4 Marks)
SECTION B (36 MARKS)	
Question Three	
a) "Preening is a very important function in Birds" Explain the state	ment. (4 Marks)
b) Explain the role of swim-bladder in fresh water bony fishes.	(2 Marks)
c) Explain three functions of scales on the body of agnatha.	(6 Marks)
Question Four	
a) Discuss four characteristic features of adaptive radiation.	(8 Marks)

(4 Marks)

b) Justify any four triggers of adaptive radiation.

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Question Five

a) Discuss the adaptative features of lizards. (8 Marks)

 b) Chondrichthyes first appeared on Earth almost 450 million years ago, and these cartilaginous fish today include both fearsome predators and harmless filter feeders. Discuss their features.

(4 Marks)

Question Six

a) Describe using a diagram illustration the external features of a rabbit. (8 Marks)

b) Discuss the adaptations of a mammal to its external environment. (4 Marks)

Question Seven

a) Describe four significant events that occurred following the evolution of jawless
 fish.
 (8 Marks)

b) Explain any four external features of a bony fish. (4 Marks)
