

ZOO 112E

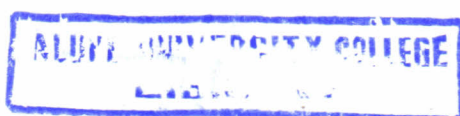


OFFICE OF THE DEPUTY PRINCIPAL  
ACADEMICS, STUDENT AFFAIRS AND RESEARCH

## UNIVERSITY EXAMINATIONS

### 2017 /2018 ACADEMIC YEAR

FIRST YEAR SECOND SEMESTER REGULAR EXAMINATION



**FOR THE DEGREE OF BACHELOR OF  
EDUCATION (SCIENCE)**

**COURSE CODE: ZOO 112E**

**COURSE TITLE: VETERBRATE ZOOLOGY**

**DATE: 25<sup>TH</sup> APRIL, 2018**

**TIME: 2.00PM – 5.00 P.M**

### INSTRUCTIONS TO CANDIDATES

- SEE INSIDE

**THIS PAPER CONSISTS OF 3 PRINTED PAGES**

**PLEASE TURN OVER**

ZOO 112E: VETERBRATE 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 answer.
  - iii. Do not write on the question paper.
- 

**SECTION A (24 MARKS)**

**Question One**

- a) State four characteristics of Tetrapods and identify the members. (4 Marks)
- b) Outline the role of the following glands found in the skin of mammals
  - a) Sebaceous glands (1 Mark)
  - b) Sweat glands (1 Mark)
  - c) Scent glands (1 Mark)
  - d) Mammary glands (1 Mark)
- c). Swim bladder in bony fish has helped the vertebrates in to survive in its marine environment. Explain (4 Marks)

**Question Two**

- a). Describe the role of the tail in mammals using specific examples (5 Marks)
- b). Write short notes on the following characteristic features of chordates:-
  - i. Nerve cord (2 Marks)
  - ii. Notochord (3 Marks)
  - iii. Pharyngeal slits (2 Marks)

**SECTION B (36 MARKS)**

**Question Three**

Compare the features of Cartilaginous and Bony fishes (12 Marks)

**Question Four**

Account for the diverse defense mechanisms displayed by reptiles. (12 Marks)

**Question Five**

a). Identify two characteristics of members of a species. (2 Marks)

b). Justify features that distinguish mammals from other vertebrates (10 Marks)

**Question Six**

Reptiles are successful vertebrates on land. Account for this statement. (12 Marks)

**Question Seven**

Describe the characteristics Gnathostomes (12 Marks)

\*\*\*\*\*