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(Knowledge for Development)

KIBABII UNIVERSITY

UNIVERSITY EXAMINATIONS 2017/2018 ACADEMIC YEAR

FIRST YEAR SECOND SEMESTER MAIN EXAMINATIONS

**FOR THE DEGREE OF BACHELOR OF SCIENCE IN BIOLOGY, BACHELOR
OF SCIENCE IN BIORESOURCE MANAGEMENT, BACHELOR OF
EDUCATION SCIENCE AND BACHELOR AGRICULTURE EDUCATION AND
EXTENSION**

COURSE CODE: SZL 122

COURSE TITLE: VERTEBRATE ZOOLOGY

DATE: WEDNESDAY 8TH August 2018

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

This paper consists of 2 printed pages. Please Turn Over



KIBU observes ZERO tolerance to examination cheating

- 1.
- a) Give four distinguishing characteristics of phylum Chordata 4marks
 - b) Name **three germ** layers found in Chordata and structures which arise from them 6marks
 - c) State three features which have guided adaptive evolution of vertebrates 3marks
 - d) State four features which have adapted reptiles to their mode of reproduction 4marks
 - e) Differentiate between:
 - [i] Epidermal and dermal scales
 - [ii] Amniotes and Anamniotes
 - [iii] obligatory neoteny and facultative neoteny 6marks
 - f) State two kinds of venom and their mode of action 4marks
 - g) Give the meaning of
 - [i] viviparous
 - [ii] ovoviviparous
 - [iii] viviparous 3marks

- 2. Describe how mammals are adapted to terrestrial life 20 marks
- 3. Describe the structural and functional adaptations of Fishes 20 marks
- 4. Describe the ways birds are structurally adapted to flight 20marks
- 5. Describe the various forms of bird wings 20 marks