JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY

SCHOOL OF AGRICULTURAL AND FOOD SCIENCES

UNIVERSITY EXAMINATION FOR DEGREE OF BACHELOR OF SCIENCE IN ANIMAL SCIENCE

1ST YEAR2ND SEMESTER2020/2021 ACADEMIC YEAR

SPECIAL EXAM/RESIT

COURSE CODE: AAS 3111

COURSE TITLE: Zoology

EXAM VENUE: STREAM: (BSc. Animal Science)

DATE: **EXAM SESSION:**

TIME:

Instructions

1. **Answer ALL questions in Section A (compulsory) and ANY TWO questions in Section B**
2. **Candidates are advised not to write on the question paper**
3. **Candidates must hand in their answer booklets to the invigilator while in the examination room**

SECTION A [30 MARKS]

Answer ALL questions in this section

1. Define the following:
   a) Notochord (1 mark)
   b) Anatomy (1 mark)
   c) Ecology (1 mark)

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2. Give functions of any three specialized hairs found in mammals. (3 marks)
3. Outline any three characteristics of mammals in subclass *Prototheria*. (3 marks)
4. Describe location and functions of neocortex in mammals. (3 marks)
5. Migration is a movement behavior common in all animals. Give three reasons for this behavior in birds. (3 marks)
6. Distinguish between altricial and precocial birds. (3 marks)
7. Describe phenomenon of brood parasitism in birds. (3 marks)
8. Outline three adaptations of snakes to live in the environment. (3 marks)
9. Explain the two lifestyles found in amphibians. (3 marks)
10. Give three morphological characteristics of bony fish. (3 marks)

SECTION B [40 MARKS]

Answer ANY TWO questions from this section

11. Evaluate class Aves under the following headings:
    a) Feather care. (10 marks)
    b) Economic importance. (10 marks)
12. Explore the characteristics of fishes in class *Chondrichthyes*. (20 marks)

13. Describe the unique features of amphibians that are not seen in bony fish. (20 marks)
14. Analyze the characteristics of reptiles under the following headings:
    a) Metabolism (10 marks)
    b) Shedding and regenerating tails (10 marks)