



JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY
SCHOOL OF AGRICULTURAL AND FOOD SCIENCES
FIRST SEMESTER FIRST YEAR EXAMINATION FOR THE DEGREE OF BACHELOR
OF SCIENCE IN ANIMAL SCIENCE 2020/2021 ACADEMIC YEAR

COURSE CODE: AAB 1101

COURSE TITLE: Zoology

EXAM VENUE:

STREAM: (BSc. Animal Science)

DATE:

EXAM SESSION:

TIME: 2HOURS

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. State the three unifying characteristics of animals belonging to class *Mammalia*. [3 marks]
2. Give any three functions of mammalian hair. [3 marks]
3. Describe any three unique features of mammals belonging to order *Monotremata*. [3 marks]
4. Birds, just like reptiles are primarily uricotelic. Explain. [3 marks]
5. Outline any three ways by which birds maintain their feathers. [3 marks]
6. Birds use visual and auditory signals to communicate. Elaborate. [3 marks]
7. Briefly explain the benefits of low resting metabolism in reptiles. [3 marks]
8. Define encephalization quotient and explain why reptiles are considered to be less intelligent than mammals and birds. [3 marks]
9. Describe the circulatory system in tadpoles. [3 marks]
10. Briefly explore predatory behavior of adult amphibians. [3 marks]

SECTION B [40 MARKS]

Answer ANY TWO questions from this section

11. Explore parental care and brood parasitism in birds. [20 marks]
12. Discuss in detail the feeding and vocalization behavior in amphibians. [20 marks]
13. Demonstrate an understanding of the distinguishing features between lobe-finned fish and ray-finned fish. [20 marks]
14. Analyze the characteristics of reptiles under the following headings:
 - a) Defence mechanism [10 marks]
 - b) Shedding and regeneration of tails. [10 marks]