



**UNIVERSITY EXAMINATIONS**  
**THIRD YEAR EXAMINATION FOR THE AWARD OF THE DEGREE OF**  
**BACHELOR OF SCIENCE IN LABORATORY SCIENCE TECHNOLOGY**  
**FIRST SEMESTER 2022/2023**  
**[SEPTEMBER-DECEMBER, 2022]**

**ZOOL 301: ANIMAL SYSTMATICS AND EVOLUTION**

**STREAM: Y3S1**

**TIME: 2 HOURS**

**DAY: THURSDAY, 12:00 – 2:00 PM**

**DATE: 08/12/2022**

**INSTRUCTIONS**

- 1. Do not write anything on this question paper.**
- 2. Answer ALL Question in Section A and any TWO Questions in Section B.**

**SECTION A (40 Marks)**

**Answer ALL questions in this section**

1. Briefly explain the theory of evolution according to **Comte de Buffon**.  
(5 marks)
2. Briefly explain the general characters of animal species. (5 marks)
3. Briefly outline the key ingredients of phylogenetic analysis. (7 marks)
4. Briefly explain how Genetic drift may result in evolution. (8 marks)
5. Discuss how mutation may result in evolution. (5 marks)
6. Briefly explain the purpose of zoogeography. (5 marks)
7. Explain the criteria for recognition of species. (5 marks)

**SECTION B (30 Marks)**

**Answer any TWO questions from this section**

8. Discuss the mechanism of evolution by natural selection according to Charles Darwin. (15 marks)
9. Discuss the criticism of the theory of evolution. (15 marks)
10. Discuss human evolution. (15 marks)