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**UNIVERSITY EXAMINATIONS  
2022/23 ACADEMIC YEAR**

**FOURTH YEAR FIRST SEMESTER  
MAIN EXAMINATION**

**FOR THE DEGREE OF BACHEOR OF AGRICULTURE EDUCATION AND  
EXTENSION & BACHEOR OF EDUCATION**

**COURSE CODE: SZL 225 / SZL 122**

**COURSE TITLE: VERTEBRATE ZOOLOGY**

**DATE: 12<sup>TH</sup> APRIL 2023**

**TIME: 8.00 AM – 11.00 AM**

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**INSTRUCTIONS TO CANDIDATES**

Answer question **ONE** [1] and **ANY** other **TWO** [2] questions

TIME: 2 Hours

1. Define:

- [a] [i] Karyology [ii] Morphology [iii] ungulates [iv] viviparity (4mks)
- [b] List four (4) molecular taxonomic attributes (4 mks)
- [c] State two (2) respiratory structures in fishes (2 mks)
- [d] Outline three [3] forms of physiological responses to adverse conditions. (3mks)
- [e] Distinguish between monotremes and marsupials (2mks)
- [f] Enumerate four [4] functions of systematics (4mks)
- [g] List four [4] characteristics of bonny fishes (4mks)
- [h] Account for occurrence of pouched mammals in Australia. (2mks)
- [i] How does cryptic colouration provide defense in reptiles. (3mks)
- [j] Differentiate between poikilotherms and homiotherms. (2mks)

2. Describe adaptations of aves to their flight mode of locomotion. (20mks)

3. Discuss the significance of pisces to the Kenyan economy. (20 mks)

4. Write an essay on class amphibia. (20mks)

5. Describe reproduction in mammals. (20mks)