



**MASINDE MULIRO UNIVERSITY OF
SCIENCE AND TECHNOLOGY
(MMUST)**

MAIN EXAMINATIONS

**UNIVERSITY EXAMINATIONS
2021 /2022 ACADEMIC YEAR**

FIRST YEAR END OF SEMESTER EXAMINATIONS

**FOR THE DEGREE
OF
BACHELOR OF SCIENCE IN BIOLOGY / BIOTECHNOLOGY
/ BIOCHEMISTRY/ AGRICULTURAL EDUCATION AND
EXTENSION/ EDUCATION (SCIENCE)**

COURSE CODE: SZL 122

COURSE TITLE: VERTEBRATE ZOOLOGY

DATE: THURSDAY, 28TH APRIL 2022

TIME: 3:00 – 5:00 P.M.

INSTRUCTIONS TO CANDIDATES

ANSWER ALL QUESTIONS IN SECTION A AND ANY TWO QUESTIONS SELECTED FROM SECTION B

TIME: 2 Hours

MMUST observes ZERO tolerance to examination cheating

This Paper Consists of 2 Printed Pages. Please Turn Over.



SECTION A (SHORT ANSWER QUESTIONS, 40 MARKS)

1. List any five main characteristics of the Phylum Chordata. (5 marks)
2. Compare and contrast chordates and vertebrates. (5 marks)
3. List any five characteristics of the Class Amphibia. (5 marks)
4. Name five adaptive structures in bird that enables flight. (5 marks)
5. Construct a flow diagram to show classification of man, in terms of kingdom to its specific epithet. (5 marks)
6. Write short notes on jawless fishes. (5 marks)
7. List any five general characteristics of the Nonavian Reptiles. (5 marks)
8. List any five differences between Lampreys and Hagfishes. (5 marks)

SECTION A (ESSAY QUESTIONS, 40 MARKS)

9. Discuss structural and functional adaptations of fishes. (15 marks)
10. Explain why zoologists believe that birds evolved from reptiles. (15 marks)
11. Write an essay on advancement of Reptiles over Amphibians. (15 marks)