



MERU UNIVERSITY OF SCIENCE AND TECHNOLOGY

P.O. Box 972-60200 – Meru-Kenya

Tel: +254(0) 799 529 958, +254(0) 799 529 959, + 254 (0) 712 524 293,

Website: info@must.ac.ke Email: info@must.ac.ke

University Examinations 2022/2023

FIRST YEAR SECOND SEMESTER SPECIAL/SUPPLEMENTARY EXAMINATION FOR
THE DEGREE OF BACHELOR OF SCIENCE IN BIOCHEMISTRY/BACHELOR OF
SCIENCE IN AGRICULTURAL EXTENSION AND EDUCATION AND BACHELOR OF
EDUCATION

SZA 3150: VERTEBRATE ZOOLOGY

DATE: AUGUST 2023

TIME: 2 HOURS

INSTRUCTIONS: Answer question *one* and any other *two* questions

QUESTION ONE (30 MARKS)

- Mention the drawbacks of common names when classifying vertebrate organisms (5 marks)
- Elucidate the variety of scales among groups of fishes (5 marks)
- Briefly describe the origin of vertebrates (5 marks)
- List ways chondrichythes differ from agnathans (5 marks)
- Explain the challenges that vertebrate groups faced when they evolved from water to life on land (5 marks)
- Explain the structure and function of the amniotic egg (5 marks)

QUESTION TWO (20 MARKS)



MUST is ISO 9001:2015 and



ISO/IEC 27001:2013 CERTIFIED

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a) Describe defence mechanisms used by the reptiles citing relevant examples (20 marks)

QUESTION THREE (20 MARKS)

Give a detailed account of amphibians adaptations to terrestrial life (20 marks)

QUESTION FOUR (20 MARKS)

Discuss birds' structural modifications to flight (20 marks)

