



EMBU UNIVERSITY COLLEGE
(A CONSTITUENT COLLEGE OF THE UNIVERSITY OF NAIROBI)

FIRST SEMESTER EXAMINATIONS 2013/2014

FIRST YEAR EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE
(BIOLOGY), BACHELOR OF SCIENCE AND BACHELOR OF SCIENCE
ENVIRONMENTAL CONSERVATION AND MANAGEMENT

SZL102: VERTEBRATE ZOOLOGY

DATE: DECEMBER 3, 2013

TIME: 8.30 – 10.30AM

INSTRUCTIONS:

Answer any 10 questions. Each question carries 7 marks

1. Chordates share certain similarities in their embryonic development. Discuss
2. Explain the characteristics that make vertebrates distinct from other chordates
3. Identify the various types of glands in mammals and state their functions
4. List the differences between horns and antlers and name one example of an animal with each.
5. Describe the adaptations of birds for flight
6. Discuss the economic importance of frogs
7. Explain the following systems and processes in subphylum urochordata.
 - a. Cleavage
 - b. Excretory system
 - c. Digestive system
8. Describe how the cleidoic egg enabled reptiles to become independent of water
9. Discuss the adaptations of mammals for cold and heat stress

10. Discuss three infraclasses in the subclass theria
11. Describe the circulatory system in osteichthyes
12. Lancelets form a link between vertebrates and urochordates. Discuss

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