



MAASAI MARA UNIVERSITY
UNIVERSITY EXAMINATIONS 2019/2020
SECOND YEAR END OF FIRST SEMESTER
EXAMINATIONS
SCHOOL OF SCIENCE AND INFORMATION SCIENCES
FOR
BACHELOR OF SCIENCE
ZOO 2209: VERTEBRATE ZOOLOGY

DATE: 29.4.2019
10.30AM

TIME: 8.30AM -

INSTRUCTIONS TO CANDIDATES

1. Answer **ANY 10** questions
2. Illustrate your answers with suitable diagrams and give examples wherever necessary.

1. Outline the features of lancelet that seem to reveal their ancestry from echinoderm
(7 marks)
2. State the morphological features that enable the following vertebrates adapt to their mode of life
 - a) Nile perch (3 marks)
 - b) Tortoise (4 marks)
3. Describe briefly the structure and function of (7 marks)
 - a) Respiratory system in birds (3 marks)
 - b) Nephron in mammals (4 marks)
4. State the parts of the amniote egg and their functions
(7 marks)
5. Outline the economic importance of fish (7 marks)
6. Describe the digestion of food in birds (7 marks)
7. Give a descriptive account of circulatory system of mammals
(7 marks)
8. Explain the adaptation of reptiles to terrestrial life (7 marks)
9. Describe the bird's morphological adaptation to flight
(7 marks)
10. List 5 types of bird beaks and state their adaptation to the bird's mode of feeding (7 marks)
11. Outline the distinguishing characteristics of mammals (7 marks)
12. Describe the life cycle of frogs (7 marks)

13. Outline the distinguishing features of Chondrichthyes (7 marks)
14. Describe briefly osmoregulation in lizards (7marks)
15. Describe the distinguishing characteristics of vertebrates (7 marks)

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