UNIVERSITY OF AGRICULTURE, ABEOKUTA DEPARTMENT OF BIOLOGICAL SCIENCES SECOND SEMESTER 2009/2010 ZOO 364: EVOLUTION OF CHORDATE

INSTRUCTIONS: ANSWER ALL QUESTIONS IN GENERAL PLUS YOUR GROUP QUESTION TIME ALLOWED: 1.30 HOURS

GENERAL

- 1. Define evolution?
- 2. Which chordate group evolved first?
- 3. Which chordate group evolved last?
- 4. Draw the evolution tree of the phylum chordata.
- 5. What is Natural Selection?
- 6. Define a species?
- 7. List the four main characteristic of chordate?
- 8. Name a prominent characteristic of chordate which is lost in higher chordate.
- 9. The habitat of the first chordate was?
- 10. Which organism were the first to change habitat?

GROUP 1

Draw a named extinct aves. Describe the key reptilian and avian characteristics of this bird.

GROUP 2

Draw a named reptile. What are the key features that enable the reptiles to survive on land?

GROUP 3

List the classes of amphibians. What are the limitations that prevented them from full adaptation to land dwelling.

GROUP 4

List all the known skeletal and non skeletal characteristic of mammals. The first mammals lived on what diet?

GROUP 5

Draw a named placodermic chordate. Describe the important feature of this chordate

GROUP 6

Draw a named urochordate. Why is the group classified as chordate?

GROUP 7

Draw a named cephalochordate. What are the chordate features of the group?

GROUP 8

Draw a named living agnatha. Describe the key features of living agnatha

GROUP 9

Draw and describe the surviving group member of the Chondrichthyes

GROUP 10

Draw a named Osteichthyes. What are the key adaptations of this group to survival in their habitat?

GROUP 11

Draw the fin of crossopterygian and the limb of an amphibian. What are the similarities in their structure and transition to land (tetrapods)?