

ONDO STATE UNIVERSITY OF SCIENCE AND TECHNOLOGY (OSUSTECH), OKITIPUPA

FACULTY OF SCIENCE

DEPARTMENT OF BIOLOGICAL SCIENCES

Second Semester Examination, 2017/2018 Academic Session

Course Title: Chordates Course Code: ZOO 202

Time allowed: 2hrs 30 minutes

Instruction: Answer question one (1) and any other three (3)

1. (a) What are the features that distinguish chordates from other phyla?
(b) List the characteristics of living mammals
(c) What are the features used to classify mammals?
(d) Compare and contrast the features of the following pairs of orders of placental mammals, give examples:
i Perissodactyls versus Artiodactyls.
ii Sirenians versus Cetaceans.
iii Primates versus Proboscideans.
iv Rodent versus Lagomorphs. (40marks)
2. (a) Discuss the various adaptations that enable birds to fly.
(b) Explain why crops and gizzards are more advantageous to seed eating birds than to birds that eat
(c) Name three (3) groups of birds and describe briefly some of their characteristics
(d) How does a beak of a bird determine the type of food it eats? (20marks)
3. (a) Outline the ways the fish is adapted for its life in water.
(b) What are the basic functions of fins, scales gills and operculum?
(c) Name three (3) main groups of fish and give an example of each group.
(d) Describe the three (3) different modes of fish reproduction. (20marks)
4. (a) What adaptations do many adult amphibians have to carry out respiration.
(b) What characteristics usually restrict amphibian reproduction to moist environment?
(c) List the main groups of living amphibians.
(d) State the differences between tunicates and lancelets?
5. (a) What are the advantages of dry scaly skin for reptiles?
(b) Describe the characteristics of reptiles.
(c) How are reptiles adapted to life on land?
(d) What are the four (4) living orders of reptiles. What are the common names of these modern reptile groups? (20marks)