

W1-2-60-1-6

**JOMO KENYATTA UNIVERSITY**

**OF**

**AGRICULTURE AND TECHNOLOGY**

**UNIVERSITY EXAMINATIONS 2016/2017**

**END OF SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE OF FISHERIES**

**SZL 2200: VERTEBRATE ZOOLOGY**

**DATE: JUNE 2017 TIME: 2 HOURS**

**INSTRUCTIONS: ANSWER QUESTION ONE AND ANY OTHER TWO QUESTIONS**

**QUESTION ONE**

1. Outline the general characteristics of vertebrates. [6 marks]
2. Describe briefly the different structure of scales in fishes. [6 marks]
3. Outline the various types of bird feathers and their functions. [6 marks]
4. Describe briefly the digestive system and nutrition in Lampreys fish. [6 marks]
5. Outline the distinctive features of class chondrichyres. [6 marks]

**QUESTION TWO**

Discuss sea squirts under the following topics;

1. Body form [12 marks]
2. Circulation and gaseous exchange [8 marks]

**QUESTION THREE**

Discuss the economic importance of birds to humans. [20 marks]

**QUESTION FOUR**

Discuss lizards under the following aspects;

1. The digestive system and nutrition. [12 marks]
2. Thermoregulation [8 marks]

**QUESTION FIVE**

Discuss the functions of reproductive hormones in mammals. [20 marks]