

**W1-2-60-1-6**

**JOMO KENYATTA UNIVERSITY OF AGRICULTURE AND TECHNOLOGY**

# **UNIVERSITY EXAMINATIONS 2014/2015**

**FIRST YEAR SECOND SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF PUBLIC HEALTH**

**IPH 2107 : COMPARATIVE ANATOMY OF FOOD ANIMALS II**

**DATE: DECEMBER 2014 TIME: 2 HOURS**

**INSTRUCTIONS:**

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**SECTION A [48 MARKS]**

1. Outline the classifications of bones according to gross appearance [6 marks]
2. List the bones of a thoracic limb [6 marks]
3. State any six differential features of the liver of sheep and pig according to the following features
4. Color [2 marks]
5. Weight [2 marks]
6. Lobes [2 marks]
7. Explain the following types of muscles contraction
8. Concentric contraction [3 marks]
9. Isometric contraction [3 marks]
10. State any six differential features in the skeleton of horses and oxen [6 marks]
11. Compare the length of small and large intestines of the following animals
12. Cow and horse [3 marks]
13. Sheep and pig [3 marks]
14. State the functions of the nervous system in the animals [6 marks]
15. Describe the following
16. Proprioption [2 marks]
17. Noxious stimuli [2 marks]

**SECTION B [22 MARKS]**

1. i. Discuss the dental formula of the following animals
2. Dog
3. Goat
4. Pig
5. Horse
6. Ox [18 marks]

ii. State the adaptation of canines and incisors [4 marks]

1. Compare the vertebrates of common domestic animals with that of humans [22 marks]
2. i. Discuss the sex characteristics of the following classes of cattle
3. cattle [4 marks]
4. heifer [4 marks]
5. bullocks [4 marks]
6. bulls [4 marks]

ii. Briefly describe the estimation of age of animals by horns [6 marks]