



JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY

SCHOOL OF HEALTH SCIENCES

UNIVERSITY EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE

PUBLIC HEALTH/COMMUNITY HEALTH AND DEVELOPMENT

2ND YEAR 1ST SEMESTER 2017/2018 ACADEMIC YEAR

MAIN CAMPUS

COURSE CODE:

HPD: 3123

COURSE TITLE:

ANATOMY AND PHYSIOLOGY OF FOOD ANIMALS

EXAM VENUE:

STREAM: BSc Public/ Comm. Hlth & Dev

DATE:

EXAM SESSION:

TIME: 2.00 HOURS

Instructions:

- 1. Answer all the questions in Section A and 2 questions in Section B.**
- 2. Candidates are advised not to write on the question paper.**
- 3. Candidates must hand in their answer booklets to the invigilator while in the examination room.**

SECTION A.

Answer ALL questions

1. Define the following terms:
 - i. Anatomy [3 marks]
 - ii. Physiology [3 marks]
 - iii. Homeostasis [3 marks]
2. Describe the structure and function of the following [2 marks each]:
 - a. Cell membrane
 - b. Endoplasmic reticulum
3. Describe the structure and function of the following [2 marks each]:
 - a. Ribosome
 - b. Nucleolus
 - c. Mitochondrion
4. The following questions are about tissues;
 - a. Define the term 'Tissue' [1 mark]
 - b. Name the basic body tissues [3 marks]
5. Describe the structure and function of one basic body tissue [4 marks]
6. List and explain three examples of how structure determines function in the body. [3 Marks]

SECTION B

ANSWER ANY TWO QUESTIONS

Question 1

Describe the digestion in the ruminant and highlight the major difference with mono-gastric animals [20 marks]

Question 2

- a. What are the phases of reproductive development in the life of a mammal? [10 marks]
- b. How do you determine the mammal's readiness for breeding? [10 marks]

Question 3

- a. List the sources and function of hormones derived from steroid, peptides and amines[10 marks]
- b. Describe the cell theory [10 marks]

Question 4

What the functions of the major female reproductive organs in poultry? [20 marks]