



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 2ST SEMESTER 2018/2019 ACADEMIC YEAR

KISUMU CAMPUS

COURSE CODE: HPD 3214

COURSE NAME: 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 30 MARKS

1. Describe the functions of digestive tract in a mammal. (10 marks)
2. Name all the sensory receptors in the dermis of the skin and their functions (4 marks)
3. Briefly classify bones of the skeletal system giving one example in each (4 marks)
4. Define the following terminologies (2 marks)
 - a) Pulmonary circulation
 - b) Systemic circulation
5. Describe the function of the following (4 marks)
 - a) Afferent neurons
 - b) Efferent neurons
6. Describe three functions of hormones in the body of animals giving one example in each (6 marks)

SECTION B- Answer any two questions 20 MARKS EACH

Question 1

- a) Describe the digestion in poultry highlighting the major structures involved (10 marks)
- b) Describe how homeostasis helps in maintaining body temperature of an animal (10 marks)

Question 2

Describe the macroscopic structures and functions of female reproductive organs (20 marks)

Question 3

- a) Describe the five phases of mitosis in cell cycle (10 marks)
- b) Describe the four components of the brain highlighting their functions (10 marks)

Question 4

Compare and contrast the digestion in ruminants with that in mono-gastric animals [20 marks]