



KISII UNIVERSITY
UNIVERSITY EXAMINATIONS

SECOND YEAR EXAMINATION FOR THE AWARD OF
THE DEGREE OF BACHELOR OF SCIENCE IN PUBLIC HEALTH
FIRST SEMESTER 2018/2019
(JANUARY - APRIL, 2019)

PHES 202: ANATOMY AND PHYSIOLOGY OF FOOD ANIMALS

STREAM: Y2S1

TIME: 3 HOURS

DAY: THURSDAY, 9:00 AM – 12:00 PM

DATE: 28/03/2019

INSTRUCTIONS

1. *Do not write anything on this question paper.*
 2. *Answer ALL Questions In Section A And Any Other TWO Question In Section B.*
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1. Using examples explain the difference between axial and appendicle skeleton. [5 marks]
 2. Explain the sites of semen deposition in the following animals. [5 marks]
 - a) Bovine
 - b) Equine
 - c) Swine
 - d) Caprine
 - e) Avian
 3. Briefly explain functions of the biggest organ of the integumentary system the skin of a goat. [5 marks]
 4. Write short notes about the notes of the equine pelvic girdle giving the comparative difference with that of a bovine. [5 marks]

5. Briefly describe the following developmental abnormalities; [5 marks]
- Cryptochidism
 - Hydrocephalus
6. Giving examples, discuss the various joints in a bovine and the principle of classification of joints. [5 marks]
7. Discuss the five functions of skeletal tissues in animals. [5 marks]
8. Briefly explain the differences between the sympathetic and parasympathetic nervous system. [5 marks]

SECTION B

1. Describe the various stages of fertilization in animals and all the events involved. [15 marks]
2. Dentition is an important comparative aspect in food animals. Show a complete dental formula of the following animals. [15 marks]
- Bovine $\frac{0}{4} \quad \frac{0}{0} \quad \frac{3}{3} \quad \frac{3}{3}$
 - Swine $\frac{3}{3} \quad \frac{1}{1} \quad \frac{4}{4} \quad \frac{3}{2}$
 - Equine $\frac{3}{3} \quad \frac{1}{1} \quad \frac{3}{3} \quad \frac{4}{4}$
3. a) Discuss the differences between skeletal and cardiac muscles. [7.5 marks]
- b) Explain the functions of blood tissues in animals. [7.5 marks]