

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

**THIRD YEAR EXAMINATION FOR THE AWARD OF DEGREE OF
BACHELOR OF PUBLIC HEALTH**

PUHE 252: COMPARATIVE ANATOMY OF FOOD ANIMALS

STREAMS: PUHE Y2S2

TIME: 2 HOURS

DAY/DATE: WEDNESDAY 19/4/2023

2.30 P.M. – 4.30 P.M.

INSTRUCTIONS

1. Do not write anything on the question paper.
2. Mobile phones and any other reference materials are NOT allowed in the examination room.
3. The paper has three sections. Answer ALL questions in Sections I, II and III.
4. All your answers for Section I (MCQs) should be on one page.
5. Number ALL your answers and indicate the order of appearance in the space provided in the cover page of the examination answer booklet.
6. Write your answers legibly and use your time wisely

SECTION 1: MULTIPLE CHOICE QUESTIONS [10 MARKS]

1. Which of the following muscular valve controls the flow of digestive juice from the hepatopancreatic duct to the duodenum?

- (a) Sphincter of Oddi
- (b) Semilunar valve
- (c) Ileocaecal valve
- (d) Pyloric sphincter

2. Lungs are enclosed within

- (a) Perichondrium
- (b) Periosteum
- (c) Pleural membrane
- (d) Pericardium

3. Which of the following organs is known as the “graveyard” of RBCs?

- (a) Spleen
- (b) Kidney
- (c) Liver
- (d) Gall bladder

4. Heartbeat originates from the

- (a) papillary muscles
- (b) SA node
- (c) AV node
- (d) Purkinje fibres

5. The basic functional unit of a food animal kidney is known as

- (a) Nephron
- (b) Pyramid
- (c) Henle’s loop nephron
- (d) Nephridia

6. Which of the following joints is immovable?

- (a) Fibrous joint
- (b) Synovial joint
- (c) Cartilaginous joints

7. Intercostal muscles are attached with

- (a) Diaphragm
- (b) Ribs
- (c) Thigh
- (d) Abdomen

8. Which of the following is a part of the hindbrain?

- (a) Hypothalamus
- (b) Cerebellum
- (c) Spinal cord
- (d) Corpus callosum

9. The muscles is not part of mastication:

- a. Masseter
- b. Temporalis
- c. Malaris
- d. Digastricus

10. Two anterior vena cava are seen in:

- a. Dog
- b. Cow
- c. Fowl
- d. Horse

SECTION II: SHORT ANSWER QUESTIONS [40 MARKS]

1. Define the following terms

- a) Anatomy [2 marks]
- b) Physiology [2 marks]
- c) Organic System [1 marks]

2. State five(5) functions of connective tissue in bovine body [5 marks]
3. State five (5) key anatomical parts of interest in when inspecting pork [5 marks]
4. Explain parts and functions of the Cardiovascular system of food animals [5 marks]
5. Explain five (5) key feeding and anatomical differences between ruminants and pigs [5 marks]
6. Elaborate on three (3) principal planes /sections of domesticated food animals [5 marks]
7. Discuss five (5) differences between herbivores and carnivores which assist public health practitioners in meat inspection [10Marks]

SECTION III: LONG ANSWER QUESTIONS [20 MARKS]

1. Ruminants have very complex digestive system of all domesticated food animals. Describe with a well labeled diagram the parts of ruminant digest system and their functions [20 marks]

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