



MACHAKOS UNIVERSITY

University Examinations for 2021/2022

SCHOOL OF HEALTH SCIENCES

DEPARTMENT OF PUBLIC AND COMMUNITY HEALTH

SECOND YEAR FIRST SEMESTER EXAMINATION FOR

BACHELOR OF SCIENCE (PUBLIC HEALTH)

HPH 205: ANATOMY AND PHYSIOLOGY OF FOOD ANIMALS

DATE:

TIME:

Instructions:

This paper consists of two sections A and B

SECTION A:

Specific Instructions

- This section has one question
- This question is **COMPULSORY**
- The question is 30 Marks

QUESTION ONE (30 MARKS)

- a) Define the following terminologies (3 marks)
- Blood
 - Nerve
 - Diffusion
- b) Outline the functions of connective tissues (4 marks)
- c) State the features of cardiac muscles (3 marks)
- d) Demonstrate how you would identify any three (3) types of epithelial tissues in a bovine (3 marks)
- e) Outline the functions of the skeletal system of a buffalo (3 marks)
- f) Highlight the morphology of the vein of a Caprine (3 marks)
- g) Draw and label the diagram of an artery (3 marks)
- h) Draw and label a long bone (3 marks)
- i) Highlight the uses of the hearing sense by food animals (2 marks)

SECTION B:

Specific Instructions

- **This section has four (4) question**
- **Answer any two (2) questions**
- **Each question is 20 Marks**

QUESTION TWO (20 MARKS)

- a) Describe the components of the circulatory system of a horse (10 marks)
- b) Draw and clearly label the diagram of the following (10 marks)
- Urinary system of a cow
 - Digestive system of a horse

QUESTION THREE (20 MARKS)

- a) Describe the process of cud chewing digestive system of Ruminants (10 marks)
- b) Describe the adaptation of avian to its environment (10 marks)

QUESTION FOUR (20 MARKS)

- a) Explain the functions of the thyroid gland of a buffalo (10 marks)
- b) Describe the Physiology of sight in a sheep (10 marks)

QUESTION FIVE (20 MARKS)

- a) As a public health officer in Garissa County, you receive a group of public health student on a meat inspection tour in the slaughter house you are performing meat inspection. Describe how you would take them through features of different muscles of a cow. (10 marks)
- b) Describe the physiology of respiration in a goat (10 marks)