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CHUKA



UNIVERSITY

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UNIVERSITY EXAMINATIONS

EXAMINATION FOR THE AWARD OF CERTIFICATE IN ANIMAL HEALTH AND PRODUCTION

ANHE 00105: ANATOMY AND PHYSIOLOGY OF DOMESTIC ANIMALS

STREAMS: CERT (ANHE)

TIME: 2 HOURS

DAY/DATE: FRIDAY 14/12/2018

8.30 A.M - 10.30 A.M.

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INSTRUCTIONS

- Attempt ALL questions in Section A and any TWO Questions in Section B
- Do not write anything on the question paper

SECTION A: [40 MARKS]

1. Define these terms as used in anatomy and physiology [5 Marks]
  - (a) Cell
  - (b) Anatomy
  - (c) Haemopoiesis
  - (d) Tissue
  - (e) Organ
2. With aid of a simple well labeled diagram, describe the structure of a mammalian cell. [5 Marks]
3. Describe the main types of body tissues. [5 Marks]
4. Outline various bones of the hindlimb starting with the most proximal. [5 Marks]
5. Differentiate between extrinsic and intrinsic muscles. [5 Marks]
6. Describe functions of the skin in animals. [5 Marks]
7. With aid of a simple well labeled diagram, describe the structure of the lungs and respiratory tract in animals. [5 Marks]
8. Describe adaptation of herbivorous animals to digest plant material. [5 Marks]

**SECTION B: ATTEMPT ANY TWO QUESTIONS [30 MARKS]**

9. Briefly describe the following;

- (a) Describe the divisions of the body systems explaining their components. [10 Marks]
- (b) Outline the functions of the Skeletal system of animals. [5 Marks]

10. Briefly describe the following;

- (a) Describe the anatomy and location of the heart in animals. [4 Marks]
- (b) Describe the structure of various blood vessels in the body. [3 Marks]
- (c) Describe various regulatory functions of blood. [4 Marks]

11. Briefly describe the following;

- (a) Describe the structure of the stomach of the dog. [4 Marks]
  - (b) Describe the divisions of the small and large intestines. [4 Marks]
  - (c) Outline various muscles of respiration. [3 Marks]
  - (d) Describe the structure of mammary glands in the cow. [4 Marks]
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