

**CHUKA**



**UNIVERSITY**

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**UNIVERSITY EXAMINATIONS**

**EXAMINATION FOR THE AWARD OF DIPLOMA IN ANIMAL HEALTH AND PRODUCTION**

**ANHE 0111: GROSS ANATOMY**

**STREAMS:**

**TIME: 2 HOURS**

**DAY/DATE: THURSDAY 6/12/2018**

**11.30 A.M – 1.30 P.M**

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**INSTRUCTION:**

**SECTION A: ATTEMPT ALL QUESTIONS (40 MARKS)**

1. Define these terms as used in anatomy. [5 marks]
  - (a) Median plane
  - (b) Caudal
  - (c) Superficial
  - (d) Dorsal
  - (e) Medial
2. Give 3 classifications of bone based on their shapes and give examples. [6 marks]
3. Describe the structure of the liver of domestic animals. [4 marks]
4. Describe the muscles of respiration giving their origin and insertion. [5 marks]
5. Differentiate structures of the ruminant and non -ruminant stomach. [5 marks]
6. Define these terms concerning bones. [5 marks]
  - (a) Tuberosity
  - (b) Foramen

- (c) Sesamoid bones
  - (d) Ligament
  - (e) Condyle
7. Describe the differences between extrinsic and intrinsic muscles. [5 marks]
8. Briefly explain the following:
- (a) Describe the external oblique muscle giving its origin and insertion. [3 marks]
  - (b) Describe how the forelimb is attached to the body and why this is important. [2 marks]

**SECTION B: ATTEMPT ANY 2 QUESTION (30 MARKS)**

9. Describe the following:
- (a) What is the purpose of uncinat process on ribs of birds? [2 marks]
  - (b) Describe the formation and function of the triosseal canal in poultry. [4 marks]
  - (c) Outline 4 important functions of the skull in animals. [4 marks]
  - (d) Describe the function, origin and insertion of digastricus muscle. [4 marks]
  - (e) Muscles are covered in thin sheets of connective tissue called \_\_\_\_\_ [ 1 mark]
10. Briefly explain the following ;
- (a) Give functions of any three features in the occipital bone of mammals. [5 marks]
  - (b) What is the importance of the hyoid apparatus in the skeletal system? [2 marks]
  - (c) Differentiate between sternal, asternal and floating ribs. [3 marks]
  - (d) How does the humerus of canines differ with that of herbivores? [1 mark]
  - (e) Describe splanchnic bones giving 3 examples. [4 marks]
11. Describe the following;
- (a) Mention paranasal sinuses and their location in the skull. [3 marks]

(b) Describe in a simple well labelled diagram the structure of the lungs and upper respiratory tract in mammals. [7 marks]

(c) Describe the divisions of the small and large intestines of domestic animals. [ 5marks]

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