

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

**EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF SCIENCE IN
ANIMAL HEALTH AND AGRICULTURE & FOOD SCIENCE AND TECHNOLOGY**

ANHE 111: GROSS ANATOMY AND EMBRYOLOGY

STREAMS:

TIME: 2 HOURS

DAY/DATE: MONDAY 4/12/2017

2.30 PM – 4.30 P.M

INSTRUCTIONS:

- **Answer all questions in section A and any two questions in section B**

SECTION A (30 MARKS)

1. Define gastrulation and give the significance of gastrulation in embryology.
[4marks]
2. List cavities of the body and give one organ found in each. [6marks]
3. With the aid of a well labeled diagram differentiate between the cervical and thoracic vertebrae. [4marks]
4. Briefly discuss the boundaries of the thoracic cavity in bovine. [5marks]
5. Briefly discuss the structure of the canine mammary gland.
[5marks]
6. List the germ layers giving one organ that develops from each . [6marks]

SECTION B

7. (a) Briefly discuss the function of bones and name three classes of bones in the body.
[10marks]
(b) With the aid of a diagram explain the arrangement of the bones in the pelvic limb in the bovine. [10marks]
8. (a) Discuss the anatomy of the avian digestive system . [10marks]

(b) Giving examples differentiate anatomically between a non –ruminant and ruminant stomach. [10marks]

9. (a) Discuss the function of the muscles and give 4 examples of muscles of respiration. [14marks]

(b) Discuss the function of muscles of mastication giving 4 examples. [6marks]
