CHUKA



UNIVERSITY

[5 Marks]

UNIVERSITY EXAMINATIONS

SECOND EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF SCIENCE IN ANIMAL HEALTH AND PRODUCTION

ANHE 210: GROSS ANATOMY AND EMBRYOLOGY

STREAMS: BSC AGRI/FOST Y2S2 TIME: 2 HOURS

DAY/DATE: FRIDAY 14/12/2018 11.30 A.M - 1.30 P.M.

INSTRUCTIONS

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

SECTION A: ATTEMPT ALL QUESTIONS [40 MARKS]

1.	Outline three general classifications of body systems.	[3 Marks]
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2. Describe the divisions of the skeletal system giving examples. [6 Marks]

3. Describe Intrinsic and Extrinsic muscles giving examples. [5 Marks]

4. Outline the muscles of respiration giving their origin and insertion. [5 Marks]

5. Describe the anatomical structures that digests plant materials in herbivores like cattle and donkey. [3 Marks]

6. Describe the structure of the liver in domestic animals. [5 Marks]

7. List the main processes in the developmental anatomy of the fetus. [5 Marks]

8. With the help of a simple well labeled diagram, describe the structure of the lungs and upper respiratory tract of animals. [5 Marks]

9. Describe the structure of the heart and its location in the body. [3 Marks]

SECTION B: ATTEMPT ANY 2 QUESTINS [30 MARKS]

10. Briefly describe the following:

(a) Describe the structure of the pelvic girdle.

ANHE 210

	(b) Differentiate between epaxial and hypaxial muscles.	[2 Marks]	
	(c) Describe the masseter muscle giving its function, origin and insertion.	[4 Marks]	
	(d) Describe the structure of the sternum and the ribs and how the two articulate other.	with each [4 Marks]	
11. Briefly describe the following:			
	(a) The quadriceps femoris muscle giving its function, origin and insertion.	[4 Marks]	
	(b) The appearance of the ruminant stomach.	[4 Marks]	
	(c) Outline the functions of the skeletal system of animals.	[4 Marks]	
	(d) How is entry of multiple sperm in the ovum during fertilization prevented?	[3 Marks]	
12. Briefly describe eth following;			
	(a) Outline the various derivatives of the 3 germ layers of an embryo.	[6 Marks]	
	(b) Briefly describe the formation of the neural tube in the embryo.	[4 Marks]	
	(c) With the help of a simple well labeled diagram, describe the structure of vertebra bone.	a typical [5 Marks]	