CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

EXAMINATION FOR THE AWARD OF DIPLOMA IN ANIMAL HEALTH AND PRODUCTION

ANHE 0114: ANIMAL PHYSIOLOGY

STREAMS: DIP (ANHE)

TIME: 2 HOURS

DAY/DATE: TUESDAY 10/12/2019 11.30 AM – 1.30 PM

INSTRUCTIONS:

Answer ALL Questions in Section A and any 2 in Section B

SECTION A (30 MARKS)

Define "animal physiology" [2 marks] 1. (a) (b) Briefly differentiate the functions of the 3 types of muscle tissues. [3 marks] (c) Describe the feedback mechanisms in the body. [3 marks] [2 marks] (d) Differentiate cold-blooded from warm-blooded animals. 2. List and briefly explain 4 main hemostatic mechanisms in the body. [4 marks] (a) (b) Outline the constituents of plasma. [4 marks] (c) List 2 hormones secreted by the anterior pituitary glands giving the functions of each in the body. [2 marks] 3. (a) Outline the digestive processes that take place in the mouth of an animal. [4 marks] [4 marks] (b) List 4 anticoagulants commonly used in animal health.

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	(c)	List the functions of the lymphatic system.	[2 marks]
SECTION B (40 MARKS)			
4.	(a)	Trace the movement of air from inspiration to expiration.	[15 marks]
	(b)	Explain the occurrence of oedema and the eventual resolution.	[5 marks]
5. marks]	(a)	Birds and pigs are both monogastric animals. Explain other similar differences in their digestive system.	rities and [8
marks]	(b)	Explain the different methods which domestic animals use for prelingestion.	nension /
	(c)	Explain the mechanism of bone growth using long bones as the po	int of reference. [4
marks]			
	(d)	Explain the autonomic nervous system differentiating its two parts	. [3 marks]
6.	(a)	Explain the regulation of urine volume and concentration in the bo	dy. [6 marks]
	(b)	Briefly explain how ejaculation occurs in dogs.	[4 marks]
	(c)	Explain the parturition processes (giving birth) in cattle.	[5 marks]
	(d)	With the aid of a diagram, explain what is binocular vision and given in animals.	re its advantage [5
marks]			Ĺ