

CHUKA



UNIVERSITY

COLLEGE

UNIVERSITY EXAMINATIONS

**FIRST YEAR EXAMINATION FOR THE AWARD OF
DIPLOMA IN ANIMAL HEALTH & PRODUCTION**

ANHE 0111: ANIMAL PHYSIOLOGY

STREAM: DIP (ANHPD) Y1S2

TIME: 2 HOURS

DAY/DATE: THURSDAY 9/12/2010

2.30 P.M. – 4.30 P.M

INSTRUCTIONS:

Answer all questions.

1. List one function of each of the following in the body:

- | | |
|--------------------|-----------|
| (a) Calcitonin | [2 marks] |
| (b) Lymphnode | [2 marks] |
| (c) Pulmonic valve | [2 marks] |
| (d) Trypsin | [2 marks] |
| (e) Neutrophil | [2 marks] |
| (f) Lipase | [2 marks] |
| (g) Thyroxine | [2 marks] |
| (h) Amylase | [2 marks] |
| (i) Antideuretic | [2 marks] |
| (j) Reinshaw cells | [2 marks] |

2. Homeostasis is a life supporting process in the body.

- | | |
|---|------------|
| (a) Define homeostasis | [2 marks] |
| (b) Describe the changes in the body that arise due to excessive diarrhea. | [10 marks] |
| (c) Name the organs that participate in the maintenance of normal pH in the body. | [4 marks] |

- (d) "All or none" law in the generation of action potential. [4 marks]
3. Briefly describe the following:
- (a) Ketosis [4 marks]
 - (b) Respiratory acidosis [4 marks]
 - (c) Transmission of impulses across a synapse [4 marks]
 - (d) Roles of plasma proteins [4 marks]
 - (e) Rumen digestion [4 marks]
4. Define or give one role of the following:
- (a) Pacemaker cells [1 mark]
 - (b) Depolarization [1 mark]
 - (c) Motor neurons [1 mark]
 - (d) Myosin [1 mark]
 - (e) Haemoglobin [1 mark]
 - (f) Baroreceptors [1 mark]
 - (g) Interstitial fluid [1 mark]
 - (h) Autonomic nervous system [1 mark]
 - (i) Portal vein [1 mark]
 - (j) Mitochondria [1 mark]
 - (k) Antagonistic muscles [1 mark]
 - (l) Rods [1 mark]
 - (m) Polyuria [1 mark]
 - (n) Radiation [1 mark]
 - (o) Ventilation [1 mark]
 - (p) Oxytocin [1 mark]
 - (q) Gizzard [1 mark]
 - (r) Lysosomes [1 mark]
 - (s) Cochlea [1 mark]
 - (t) Fatigue [1 mark]
5. Briefly outline the digestion of food in the pig (indicate the enzymes that are secreted). [20 marks]
-