



UNIVERSITY EXAMINATIONS

**SECOND YEAR EXAMINATION FOR THE AWARD OF DEGREE OF
BACHELOR OF SCIENCE IN ANIMAL PRODUCTION**

ANHE 211: ANIMAL PHYSIOLOGY

STREAM: B.SC (ANPD) Y2S1

TIME: 2 HOURS

DAY/DATE: WEDNESDAY 28/7/2010

2.30 P.M. – 4.30 P.M.

INSTRUCTIONS:

Answer all questions.

1. Discuss the activities involved in maintaining normal temperature of animals in a hot environment of temperature above 31°C. [20 marks]
2. Briefly describe the role of the following in the body: [20 marks]
 - (a) Calcitonin
 - (b) Lymph nodes
 - (c) Aortic valve
 - (d) Antidiuretic hormone
 - (e) Neutrophils
 - (f) Lipase
 - (g) Mitochondria
 - (h) Thyroxine
 - (i) Amylase
 - (j) Hydrochloric acid.
3. (a) Outline 4 differences between the sympathetic and parasympathetic nervous systems. [8 marks]
- (b) Give a labeled diagram of a monosynaptic spinal reflex arc. [6 marks]

- (c) Briefly describe the crossed extensor reflex and point out its importance. [6 marks]
4. (a) Discuss the adaptation of animals in an environment with low supply of water. [10 marks]
- (b) Describe the response of the respiratory system to changes in partial pressure of carbon dioxide in the plasma. [10 marks]
5. Discuss the following:
- (a) Causes of bottle jaw. [6 marks]
- (b) Transport of O_2 in blood. [6 marks]
- (c) Changes in the body that accompany excessive diarrhea. [8 marks]
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