

UNIVERSITY OF BUEA	
FACULTY OF SCIENCE	
SECOND SEMESTER EXAMINATIONS FOR 2007/2008 SESSION	
DEPARTMENT: PAS	COURSE INSTRUCTORS: Salah, Etchu
MONTH: July 2008	COURSE CODE: ZOO 406
DATE: 02/07/08	COURSE TITLE: Comparative Vertebrate Physiology II
TIME ALLOWED: 3 Hours	DURATION: 8.00-11.00
INSTRUCTIONS: Answer all the two Questions	

(1) Using a diagrammatic representation of the action Potential, describe:

- (i) How the action potential is generated (4 Marks)**
 - (ii) Repolarization of the action potential (4 Marks)**
 - (iii) The refractory period (4 Marks)**
 - (b) How is a nerve impulse transmitted across a neuromuscular junction? (4 Marks)**
 - (c) Describe the excitation-contraction coupling in smooth muscle (5Marks)**
 - (d) Using a diagram only indicate the energy sources needed for muscle Physiology (5 Marks)**
 - (e) Describe the process of olfactory transduction (5 Marks)**
- (Total 35 Marks)**

- (2) (a) (i) List the functions of the liver (4 Marks)**
- (ii) With the aid of a diagram, describe the urea cycle (6 Marks)**
 - (iii) Name and describe the functions of three hormones of the liver (5Marks)**
- (b) (i) What is an immune system? (3 Marks)**
- (ii) Name and describe the three types of human immunity (7 Marks)**
- (c) (i) What is a cell signalling? (2 Marks)**
- (ii) Intercellular communication is subdivided into four classes, discuss (8 marks)**

(Total 35 Marks)

Grand Total: 70 Marks

.....**Good Luck**.....