UNIVERSITY OF BUEA
FACULTY OF SCIENCE
FIRST SEMESTER EXAMINATIONS FOR 2008/2008 SESSION

DEPARTMENT: PAS **COURSE INSTRUCTORS**: Salah, Fokam
MONTH: February 2009 **COURSE CODE**: ZOO 409
DATE: 27/02/09 **COURSE TITLE**: Comparative Vertebrate Physiology I
TIME ALLOWED: 3 Hourse **DURATION**: 15-18hrs
INSTRUCTIONS: Answer all the two Questions

(1) (a) Describe the aspects of gastrointestinal physiology with respect to:

(i) Nervous control (5 Marks)
(ii) Motility (5 Marks)
(iii) Secretions (10 Marks)
(iv) Digestion and Absorption (10 Marks)

(b) Describe the mechanism and control of the renal physiology (10 Marks)
(c) How is oxygen and carbon dioxide transported by blood? (4 Marks)
(d) In which way is the brain-Testicular Axis involved in the control of the reproductive function? (3 Marks)
(e) Using a diagram only, show the structural and functional elements of a Eukaryotic cell membrane (3 Marks)

(Total 50 Marks)

(2) a) (i) What is the greatest challenge to the circulatory system (Precise answer please) (2 marks)
(ii) How have the different classes of vertebrates overcome this challenge? (6 Marks).
(b) Explain the role of the circulatory system in the cooling of an animal's body (5 Marks)
(c) In a diagrammatic manner, outline haematopoiesis from a stem cell (4 marks)
(d) In a tabular manner, compare the composition of blood, plasma and serum (3 marks)

(Total 20 Marks)

Grand Total: 70 Marks

……..Good Luck……