



KENYATTA UNIVERSITY

UNIVERSITY EXAMINATIONS 2008/2009

INSTITUTE OF OPEN LEARNING

EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE

SZL 409: ENVIRONMENTAL PHYSIOLOGY

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DATE: WEDNESDAY 17TH FEBRUARY 2010

TIME: 2.00 P.M. – 4.00 P.M.

INSTRUCTIONS

Answer ALL Questions from Section A and any ONE Question in Section B.

Illustrate your answers with diagrams and give examples where appropriate.

SECTION A :

1. Outline the importance of respiratory pigments
2. Outline the Glycolytic pathway.
3. Differentiate between the following terms:
 - a) Poikilothermic ectotherms and Homeothermic endotherms
 - b) Viviparity and Oviparity
4. Outline any five factors that lead to migration of animals.
5. "The nitrogenous product excreted is related to the environment in which an animal lives". Explain this statement.
6. Outline any five functions of blood.
7. Describe the structure of the nephron.
8. Outline the mechanisms of heat energy transfer.

SECTION B

9. Describe the respiratory mechanisms employed by the diving vertebrates.

10. Discuss thermoregulation in reptiles.