



KENYATTA UNIVERSITY
UNIVERSITY EXAMINATIONS 2011/2012
IBP DECEMBER 2011 SESSION EXAMINATION FOR THE DEGREE OF
BACHELOR OF SCIENCE

SZL 409: ENVIRONMENTAL PHYSIOLOGY

DATE: Thursday 3rd May 2012

TIME: 11.00a.m – 1.00p.m

INSTRUCTIONS:

Answer all questions in Section A and any ONE in Section B.

Illustrate your answer and give examples where appropriate.

SECTION A

Answer ALL questions (40 marks)

1. Differentiate between the following terms:
 - (a) Endothermy and Poikiothermy
 - (b) Symport and Antiport.
2. Outline any five factors that lead to the migration of animals.
3. Describe briefly the osmoregulatory mechanisms adopted by *Tilapia*.
4. Outline the factors that influence oxygen saturation.
5. Explain ammonotelism.
6. Describe the structure and function of the brown adipose tissue.
7. Outline the glycolytic pathway.
8. State the factors that influence diapause.

SECTION B:

Answer any one question (30 marks).

9. Give a detailed account of respiratory mechanisms in an oxygen-depleted habitat.

10. Write an essay on thermoregulation in desert vertebrates.

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