



KENYATTA UNIVERSITY

UNIVERSITY EXAMINATIONS 2019/2020

DIGITAL SCHOOL OF VIRTUAL AND OPEN LEARNING (DSVOL)

SECOND SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE

SZL 409: ENVIRONMENTAL PHYSIOLOGY

DATE: SATURDAY 24TH OCTOBER 2020

TIME: 8.00 A.M. - 10.00 A.M.

SECTION A: Answer ALL questions (40 Marks)

1. Describe the mechanisms of solute transfer across the lipid bilayer.
2. Explain the term ammonotelism.
3. Differentiate between the following terms:
 - a) Bohr Effect and Haldane Effect
 - b) Migration and Homing
4. Explain any five thermoregulatory mechanisms adopted by reptiles. —
5. Outline the factors that lead to the production of concentrated urine in mammals.
6. Illustrate a typical servo-mechanism.—
7. Describe briefly the structure of the brown adipose tissue. —
8. Outline any five functions of blood.—

15
24

2A



SECTION B: ANSWER ANY ONE (30 Marks)

9. Write an essay on hibernation.
10. Give a detailed account of heat conservation in endothermic animals.
