



FACULTY OF SCIENCE

DEPARTMENT OF ZOOLOGY

MODULE	ZOO0047
CAMPUS	APK
EXAM	NOVEMBER 2015

DATE: 20 NOVEMBER 2015

SESSION 08:30

ASSESSOR(S)

PROF J JANSE VAN VUREN

EXTERNAL MODERATOR

PROF P KING

DURATION 2 HOURS

MARKS 80

NUMBER OF PAGES: 2 PAGES

INSTRUCTIONS: Answer all the questions.

QUESTION 1**(20)**

Discuss the ionic and osmotic regulation as well as water balance by animals on shores and in estuaries with the emphasis on dealing with the external variation.

QUESTION 2**(10)**

In freshwater habitats there are key problems that lead to a change in reproductive strategies. Identify and describe three conditions or changes that become problems to the reproductive cycle. Explain the different strategies organisms use to deal with changing conditions.

QUESTION 3**(25)**

Deserts are very hot and dry habitats. Identify and discuss the strategies followed by small ectotherm evaders and large endotherm evaporators to control body temperature under these extreme conditions.

QUESTION 4**(15)**

A number of sensory problems are experienced by organisms living in the deeper waters of the sea. Discuss physiological adaptations in these habitats.

QUESTION 5**(10)**

Explain the importance of microphagous and planktonic feeding systems in most freshwater environments.

TOTAL 80