



FACULTY OF SCIENCE

DEPARTMENT OF ZOOLOGY

MODULE ZOO0047

CAMPUS APK

SSA EXAM NOVEMBER 2015

DATE: 3 DECEMBER 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**(10)**

Describe the features of osmotically peculiar aquatic habitats and discuss the biodiversity in these special habitats.

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**(15)**

Discuss the thermal strategies of organisms to adapt to temperature changes in fresh water environments.

QUESTION 4**(20)**

Describe the characteristics of different types of cold habitats. Identify and discuss the strategies followed by small ectotherm evaders and large endotherm endurers to control body temperature under these extreme conditions.

QUESTION 5**(10)**

Briefly discuss feeding at different levels in the pelagic marine environment and the importance of planktonic and microphagous feeding systems in most freshwater systems.

QUESTION 6**(15)**

Briefly discuss respiratory adaptation by organisms living in estuaries.

TOTAL 80