



FACULTY OF SCIENCE

DEPARTMENT OF ZOOLOGY

MODULE ZOO2B20

CAMPUS APK

SSA EXAM DECEMBER 2015

DATE: 30 NOVEMBER 2015

SESSION 12:30

ASSESSOR(S)

DR JF DURAND

INTERNAL MODERATOR

PROF B VAN VUUREN

DURATION 2 HOURS

MARKS 100

NUMBER OF PAGES: 2 PAGES

INSTRUCTIONS: Answer all the questions.

QUESTION 1

Name 4 scientists or philosophers before Darwin that suggested that humans and other primates are related. (2)

QUESTION 2

Indicate the relationships of the Chordata by means of a cladogram (23)

QUESTION 3

Discuss by means of labeled diagrams the process of spermatogenesis. (10)

QUESTION 4

Discuss Garstang's theory of the origin of vertebrates critically. (20)

QUESTION 5

Draw a labeled diagrammatic illustration of the heart, aortic arches, gills and pulmonary system of the African lungfish. (6)

QUESTION 6

Make a labeled illustration of a cross section of the vertebrate intestine showing its general organization. (10)

QUESTION 7

Draw a diagram illustrating the main arterial system as seen in the fish. Label the arteries as well as the organs supplied with blood and the parts of the blood vascular system connected to the arteries. (12)

QUESTION 8

Draw a labeled illustration of the reptile skull indicating the serial arrangements of the dermal bones. (17)

TOTAL 100