



FACULTY OF SCIENCE

DEPARTMENT OF ZOOLOGY

MODULE **ZOO2A10**

CAMPUS **APK**

EXAM **JUNE 2014**

DATE: 12 JUNE 2014

SESSION: 12:30

ASSESSOR(S):

DR JC VAN DYK

INTERNAL MODERATOR:

DR L MOKAE

DURATION: 1 HOUR 40 MIN

MARKS: 80

NUMBER OF PAGES: 1 PAGE

INSTRUCTIONS: Answer all the questions.

QUESTION 1

Discuss the various mechanisms/processes involved in the **innate immune response**. (20)

QUESTION 2

Briefly discuss the **pathogenesis, diagnosis and treatment** of an *Echinococcus granulosus* infection. (10)

QUESTION 3

People infected by *Enterobius vermicularis* lose sleep due to the parasites' activity. Discuss this statement by referring to the **life cycle and associated pathology** of the parasite. (15)

QUESTION 4

Parasites in the class Monogenea are well adapted, **in terms of reproduction**, for their parasitic lifestyle. Discuss this statement with reference to the biology of *Gyrodactylus* sp. (5)

QUESTION 5

Compare the Ceratopogonidae with the Culicidae with regards to their **mode of feeding**. Explain the role of the **different mouth parts**. (10)

QUESTION 6

A chicken farmer complains that hundreds of his chicks are dying after being listless and producing bloody diarrhoea. The disease is caused by a unicellular organism. Identify the parasite and diagnose the disease, discuss the **life cycle**, and refer to the **pathology**. Also suggest **treatment**. (20)

(80)
