



## **FACULTY OF SCIENCE**

### **DEPARTMENT OF ZOOLOGY**

**MODULE        ZOO0097**

**CAMPUS        APK**

**EXAM        JUNE 2014**

**DATE:            09/06/2014**

**SESSION        08:30**

**ASSESSOR(S)**

**DR J F DURAND**

**INTERNAL MODERATOR**

**PROF B VAN VUUREN**

**EXTERNAL MODERATOR**

**PROF D DRAKE**

**DURATION       90 MINS**

**MARKS       100**

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**NUMBER OF PAGES: 2 PAGES**

**INSTRUCTIONS:**        **Answer ALL questions.**  
                                 **Answers must be approximately 500-800 words EACH**

**QUESTION 1**

Critically discuss the validity of the characteristics commonly used to define mammals. Discuss which characteristics are more appropriate and present an argument of why? [20]

**QUESTION 2**

Discuss the importance and prevalence of insectivory in mammals with special reference to the adaptations required for this feeding strategy. [30]

**QUESTION 3**

Discuss the origin, diversification and biogeographical distribution of the Artiodactyla (common names for species will suffice). Describe their evolutionary adaptations for life on grassland and how they became the dominant medium to large herbivores on land. [40]

**QUESTION 4**

Discuss the adaptations for flight (including gliding) in mammals. [10]

**TOTAL MARKS (100)**

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