



**FACULTY OF SCIENCE**

**DEPARTMENT OF CHEMISTRY**

**MODULE: ZOO0097 (MAMMAL DIVERSITY)**

**CAMPUS: APK**

**EXAM SUPPLEMENTARY – JUNE 2016**

**DATE:**

**ASSESSOR:**

**MODERATOR:**

**DURATION: 2 Hours**

**TIME:**

**Dr F. Durand**

**Dr R. Greenfield**

**Total Marks: 100**

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**NUMBER OF PAGES: 2 Pages (Including this page)**

**INSTRUCTIONS: Answer all the questions.**

**Question1.**

Discuss the importance and use of pheromones in mammals.

(20 marks)

**Question2.**

Discuss the origin, distribution, diversification and special adaptations of the Afrotheria.

(30 marks)

**Question3.**

Describe and compare the adaptations for a fossorial life-style as seen in different mammalian taxa.

(10 marks)

**Question4.**

Describe the different types of teeth found in mammals and discuss the functions of each type.

(10 marks)

**Question5.**

Marsupials have a peculiar distribution – they only occur in the Americas and Australia. Discuss the origin, distribution and radiation of marsupials. Describe their unique characteristics and their analogous adaptations compared to those in placental mammals.

(30 marks)