

**MAASAI MARA UNIVERSITY**

**REGULAR UNIVERSITY EXAMINATIONS**

**2016/2017 ACADEMIC YEAR**

**THIRD YEAR FIRSTSEMESTER**

**SCHOOL OF TOURISM & NATURAL RESOURCE MANAGEMENT**

**BACHELOR OF WILDLIFE MANAGEMENT**

**COURSE CODE: WLM 352**

**COURSE TITLE:** **MAMMALOGY**

**DATE: 23rd JANUARY, 2017 TIME: 14:00-16:00PM**

**INSTRUCTIONS TO CANDIDATES**

Answer **All** the Questions in Section A and any **THREE** IN SECTION B

*This paper consists of* ***TWO*** *printed pages. Please turn over.*

**SECTION A [25 marks]**

1. Define the following terms as relates to mammals, giving an example of each

(I) Endemism; (II) Arboreal; (III) Lek; (IV) Fossorial; (V) Aquatic  **[5 marks]**

1. Outline five (5) strategies female lions employ to defend their cubs against infanticide  **[5 marks]**
2. The social organization of the African Hunting Dog (*Lycaon pictus*) is unique. Explain. **[5 marks]**

1. Briefly discuss factors that prevent the production of young between two reproductively isolated individuals of mammals **[5 marks]**
2. (a) Describe two morphological characteristics you would use to sex an African elephant (*Loxidonta africana*) **[2 marks]**

(b) Describe any three (3) signs that can be used to study nocturnal or discrete mammals **[3 marks]**

**SECTION B (45 MARKS)**

1. With appropriate examples, discuss strategies different prey species use to avoid predation **[15 marks]**
2. Describe in details the social organization of African lion (*Panthera leo*) **[15 marks]**
3. The following equation is common in mark-recapture population estimation method, otherwise known as the Lincoln-Peterson method: **M/N = m/n**
4. What does M; N; m and n represent? **[5 marks]**
5. A sample of 192 squirrels were captured, marked and released in the first capture in a study. During the second capture, 88 squirrels were caught but 44 of which had been marked. Calculate the population size of the squirrels **[10 marks]**
6. The African wild dog (*Lycaon* *pictus*) is critically endangered according to the IUCN Red List. Discuss the causes of the decline and suggest measures that could help halt the decline **[15 marks]**

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