

THE OPEN UNIVERSITY OF SRI LANKA
DEPARTMENT OF ZOOLOGY
B.Sc. DEGREE PROGRAMME
FINAL EXAMINATION 2017/2018
COURSE TITLE: MAMMALIAN BIOLOGY
COURSE CODE: ZLU3187/ZYU5307
DURATION: TWO HOURS



DATE: 17th September 2018

TIME: 1.30 p.m. – 3.30 p.m.

ANSWER ANY FOUR (4) QUESTIONS.

ILLUSTRATE ANSWERS WITH LABELLED DIAGRAMS WHERE NECESSARY

1. Describe the major differences in reproduction of monotremes, marsupials and placental mammals.

2. One of your friends has found a skull of an animal in his backyard while digging a pond. He thinks it is a dog skull. As a student following the Mammalian biology course he seeks your help to confirm his identification.
 - 2.1 What characters will you observe to identify whether it is a mammalian skull?
 - 2.2 How should you identify whether the skull belongs to Order Carnivora?
 - 2.3 How should you confirm whether it is a dog skull?

3. Describe the special adaptations seen in ant-eating mammals for their mode of life.

4. Lift, drag and power are the three major problems encountered by any animal that attempts to fly. Briefly explain how bats have adapted to overcome these major problems.

5. Compare between the following.
 - a) Suborder Strepsirrhini and Haplorhini of Order Primates
 - b) Order Artiodactyla and Perissodactyla.

Continued ...

6. Write notes on two (02) of the following.

- a) Human threats to whales
- b) Molariform dentition
- c) Classical conditioning behavior in mammals
