

The Open University of Sri Lanka  
Faculty of Natural Sciences  
BSc Degree Programme



Department	: Zoology
Name of the Examination	: Final Examination of BSc Degree Programme
Academic Year	: 2020/2021
Course Code and Title	: ZYU5307-Mammalian Biology
Level	: 05
Date	: 03.04.2022
Time	: 9.30 a.m.- 11.30 a.m.
Duration	: Two Hours

### General Instructions to Candidates

1. Read all instructions carefully before answering the questions.
2. This question paper consists of **two (02) pages** and **Six (06) questions**.
3. Answer any **four (04) questions**.
4. The answer for each question should commence from a new page.
5. Use blue or black ink to write your answers.
6. Draw fully labelled diagrams where necessary.
7. Write the numbers of the questions you answered in the front page of the answer script.
8. Clearly write your index number in the answer script.
9. Do not bring in or have in possession unauthorized materials, including mobile phones and other electronic devices, or violate other examination rules.
10. Handover your answer script at the end of the examination.

Answer any **FOUR (04)** questions with fully labelled diagrams where necessary

1. Describe the adaptations seen in sanguinivorous or vampire bats to feed on blood.  
(100 marks)
2. Describe the anatomical, physiological and behavioural adaptations seen in mammals to live in polar regions.  
(100 marks)
3. Describe the general morphology and reproductive features of monotremes.  
(100 marks)
4. Discuss the adaptations seen in marine mammals for diving to extraordinary depths.  
(100 marks)
5. Compare between the,
  - a) Strepsirrhini and Haplorrhine primates (50 marks)
  - b) Artiodactyla and Perissodactyla (50 marks)
6. Write notes on any **TWO (02)** of the following; (50 marks x 2)
  - 1) Hyrax
  - 2) Hair
  - 3) Embryonic diapause in kangaroo

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