

The Open University of Sri Lanka
Faculty of Natural Sciences
B.Sc./B.Ed. Degree Programme



Department	: Zoology
Level	: 3
Name of the Examination	: Final Examination
Academic Year	: 2025/2026
Course Code and Title	: ZYU3301 - Biogeography
Date	: 02.12.2025
Time	: 01.30 p.m. – 03.30 p.m.
Duration	: 02 hours

General Instructions to Candidates

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

1. Justify the statements given below.
 - 1.1. Geographic ranges of most species tend to be relatively small. (30 marks)
 - 1.2. Geographic range size is a function of body size. (30 marks)
 - 1.3. Size of the geographic ranges tends to increase with increasing latitude. (40 marks)
2. 2.1. Distinguish the geological and climatic features of the glacial and interglacial periods. (30 marks)

2.2. Describe the causes and global effects of glacial-interglacial cycles during the Pleistocene Epoch. (70 marks)
3. 3.1. Briefly describe the two types of speciation. (40 marks)

3.2. Describe historical and current extinctions explaining the causes and providing suitable examples. (60 marks)
4. 4.1. Using the “Equilibrium Theory of Island Biogeography” explain how the isolation and island size affect the number of species available in an island. You may use graphs where suitable. (50 marks)

4.2. With examples, discuss the “Island Rule” observed in islands. (50 marks)
5. With the aid of the “Continental Drift Theory”, describe the “Plate Tectonic Model”. (100 marks)
6. Describe **ALL 3** of the below topics.
 - 6.1 Cosmopolitan distributions.
 - 6.2 Physical factors affecting plant distribution.
 - 6.3 Hominid migration to old world.(100 marks)

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