

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	: 2024/2025
Course Code and Title	: ZYU3301 - Biogeography
Date	: 27.11.2024
Time	: 09.30 a.m. – 11.30 a.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 (01) 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 distributions of species are dependent upon the geographic template of a given area. **(40 marks)**

1.2. Higher species richness in the mid-elevations of the mountain, is a function of optimum conditions in the mid-elevations of a mountain. **(40 marks)**

1.3. Species extinction is a process that occurs with or without human influence. **(20 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 migration of Hominids into the old World. **(40 marks)**

3.2. Describe the human impacts on biodiversity and biogeography. **(60 marks)**

4. 4.1. Using suitable graphs, describe the “Equilibrium Theory of Island Biogeography”. **(50 marks)**

4.2. With examples, discuss the patterns of “Island Rule” seen 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 Endemic distributions.

6.2 Physical factors affecting animal distribution.

6.3 Oceanic Islands.

(100 marks)

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