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

Course Code and Title : ZLU1181/Biogeography

Academic Year : 2019-2020 Date : 07.11.2020

Time : 1.30 pm- 3.30 pm

Duration : 02 hrs

Index number

General Instructions

- 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 only. All questions carry equal marks.
- 4. Answer for each question should commence from a new page.
- 5. Draw fully labelled diagrams where necessary
- 6. Having any unauthorized documents/ mobile phones in your possession is a punishable offense
- 7. Use blue or black ink to answer the questions.
- 8. Circle the number of the questions you answered in the front cover of your answer script.
- 9. Clearly state your index number in your answer script

1.	i. Briefly describe the Sclater-Wallace Zoogeographic scheme	[40 marks]
	ii. Explain the patterns in species richness and endemism in Australian and	
	Neotropical fauna through tectonic and glacial events.	[60 marks]
2.	Explain the three main ways in which organisms expand their range	e through dispersal
		[100 maxio]
3	Differentiate between the following:	
	i. Microevolutionary processes and macroevolutionary processes	[70 marks]
	ii. Natural selection and species selection	[30 marks]
4.	Describe the current model of plate tectonics, explaining the four major features of the	
	plate tectonics.	[100 marks]
5.	i. Briefly explain the out-of-Africa model and the multiregional hypothesis	
		[30 marks]
	ii. Describe the probable reasons behind the rapid geographical distribution of	
	a) H. erectus b) H. sapiens	[70 marks]
6.	Write short notes on any TWO (2) of the following	[50 marks each]
	i. The Island rule	
	ii. The Geographic template	

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iii. Close affinities of the Sri Lankan biota with those of India