



NATIONAL OPEN UNIVERSITY OF NIGERIA
PLOT 91, CADASTRAL ZONE, NNAMDI AZIKIWE EXPRESSWAY, JABI - ABUJA
FACULTY OF SCIENCE
Department of Pure and Applied Sciences

June 2021 Examination

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BIO 308 - Biogeography

Time: 2 hours

Credit Unit: 2

Instruction: Answer Question One (1) and any other THREE (3) Questions

1. (a) State the contributions of the following to the study of biogeography
 - (i) Alfred Russel Wallace (3 marks)
 - (ii) Robert MacArthur and E. O. Wilson in 1967 (3 marks)
 - (iii) Edward O. Wilson (4 marks)(b) Explain the various modifications that have taken place in Island Biogeography
7marks
 - (c) Give a concise description of the following zoogeographical provinces:
 - (i) Neotropical province
 - (ii) Ethiopian province
 - (iii) oriental province. **8marks**
2. (a) Explain the distribution of organisms in the following subkingdoms of Palaeotropical kingdom:
 - (i) African sub-kingdom (**3 marks**)
 - (ii) Madagascan sub-kingdom (**3 marks**)
 - (iii) Indo-Malesian subkingdom (**3 marks**)
- 2 (b) Describe the phytogeography of the following circumboreal provinces:
 - (i) Floristic province
 - (ii) Artic province
 - (iii) Atlantic province. **6marks**
3. (a) Give **Five (5)** examples of mammals of the Australian region. (**5marks**)
 - (b) Explain the following means of dispersal of plants:
 - Wind dispersal
 - Water dispersal
 - Gravity dispersal (**10marks**)
- 4 a Describe the features of Anaconda as a tropical animal (**4 marks**)
 - b. Describe the Neotropical Kingdom. (**11 marks**)
- 5 (a) Write concise notes on the following:
 - (i) South Atlantic Corridor (**3 marks**)
 - (II) Lemuria (**2 marks**)(b) Explain the distribution of plants in Californian floristic province **10 marks**