



K23U 0545

Reg. No. :

Name :

**VI Semester B.Sc. Degree (CBCSS-OBE-Regular/Supplementary/Improvement) Examination, April 2023
(2019 and 2020 Admissions)
CORE COURSE IN ZOOLOGY
6 B11 ZLG : Environmental Science**

Time : 3 Hours

Max. Marks : 40

- I. Essay Questions (**Each** question carries 8 marks). Answer **any two**.
- 1) Describe the process of ecological succession. What are the types of succession ?
 - 2) Elaborate carbon cycle using a diagram.
 - 3) Describe the characteristic features of different kinds of animal distribution over biosphere, citing two examples each.
 - 4) Explain the causes and impacts of water pollution in Kerala context. Suggest remedial measures. (8×2=16)
- II. Short essay questions (**Each** question carries 4 marks). Answer **any two**.
- 5) Briefly describe the impacts of global warming.
 - 6) What are the adaptive features of cave dwelling animals ?
 - 7) Describe the role of biotic factors in an ecosystem. (4×2=8)
- III. Short answer questions (**Each** question carries 2 marks). Answer **any six**.
- 8) List out any four causes of loss of biodiversity.
 - 9) Define predation. Mention its importance in maintaining ecological balance.
 - 10) Mention four mitigation measures related to flood.
 - 11) What is the significance of food web in an ecosystem ?
 - 12) State Liebig's Law of Minimum.
 - 13) What are features of continental islands ?

P.T.O.

K23U 0545



- 14) Differentiate emigration and immigration with reference to population dispersal.
 - 15) Mention the characteristics of pyramid of energy. (2×6=12)
- IV. Multiple choice question (**Each** question carries 0.5 marks). Answer **all**.
- 16) Which of the following is a strategy for ex-situ conservation ?
a) Wildlife sanctuaries b) Gene banks
c) National Parks d) Biosphere reserve
 - 17) Organisms which absorb soluble organic nutrients from dead organic matter are
a) Saprotrophs b) Autotrophs c) Chemotrophs d) Parasites
 - 18) The relationship between Adamsia and hermit crab is an example of
a) Mutualism b) Parasitism
c) Commensalism d) Competition
 - 19) How many biodiversity hot spots are there in India ?
a) 2 b) 3 c) 4 d) 1
 - 20) Which of the following do not contribute to greenhouse effect ?
a) Water vapour b) Nitrogen c) Nitrous oxide d) Ozone
 - 21) Which of the following is direct value of biodiversity ?
a) Aesthetic value b) Social value
c) Cultural value d) Consumptive value
 - 22) Age pyramid of a declining population will be
a) Bell shaped b) Urn shaped c) Upright d) Triangular
 - 23) India belongs to which of the following Zoogeographical realm ?
a) Oriental b) Ethiopian c) Palearctic d) Neotropical
(0.5×8=4)