

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**  
(For candidates admitted during the academic year 2019 – 2020 & thereafter)

**B. Sc. DEGREE EXAMINATION APRIL 2024**  
**BRANCH VI.A. ADVANCED ZOOLOGY & BIOTECHNOLOGY**  
**SIXTH SEMESTER**

**COURSE : MAJOR CORE**  
**PAPER : ECOLOGY**  
**SUBJECT CODE : 19ZL/MC/EC64**  
**TIME : 3 HOURS** **MAX. MARKS: 100**

**SECTION – A**

**ANSWER ALL QUESTIONS:** **(10 X 3 = 30)**

1. Define porosity
2. State Liebig's Law of Minimum
3. What is Exobiology?
4. Illustrate a food chain in a grassland.
5. Differentiate between stenohaline and euryhaline animals.
6. Give three adaptations exhibited by benthic fauna.
7. Comment on Project Tiger.
8. What are the criteria to be considered for a Biodiversity Hotspot?
9. Justify the use of Histogram in representation of data.
10. Distinguish between discrete and continuous variables.

**SECTION – B**

**ANSWER ANY FIVE QUESTIONS:** **(5 X 6 = 30)**

11. Explain the carbon cycle.
12. Write a short note on Shola forest.
13. Give a brief note on lotic and lentic habitat.
14. Summarize the various components of an ecosystem.
15. Enumerate the steps involved in Collection of Data.
16. Describe the Measures of Central Tendency.
17. Critically examine the role of wildlife sanctuaries in in situ conservation. Name any two wildlife sanctuaries in India.

**SECTION – C**

**ANSWER ANY TWO QUESTIONS:** **(2 X 20 = 40)**

18. Describe in detail about the attributes of population.
19. Give an overview on adaptations of animals inhabiting deserts.
20. List out the salient features of an estuarine environment and explain how animal communities are adapted to them.
21. Write an essay on the importance of Biodiversity.

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