

M. Sc DEGREE END SEMESTER EXAMINATION - APRIL 2021**SEMESTER 4 : ZOOLOGY****COURSE : 16P4ZOOT13EL : ENVIRONMENTAL SCIENCE - CONCEPTS AND APPROACHES***(For Regular - 2019 Admission & Supplementary - 2018/2017/2016 Admissions)*

Time : Three Hours

Max. Marks: 75

PART A**Answer any 8 (2 marks each)**

1. What is Gleization
2. How pH can influence aquatic life?
3. Mention components of climate system
4. Briefly describe Köppen–Geiger climate classification system
5. Mention the seasons experienced in India.
6. Suggest measures to combat desertification
7. Suggest measures to manage soil salinity
8. Comment on 'Bequest Value' of biodiversity
9. Comment on evenness index
10. What is CRZ?
11. List out the major terrestrial biomes
12. Comment on 'natural enemy release hypothesis' for invasion success

(2 x 8 = 16)**PART B****Answer any 7 (5 marks each)**

13. Write on the theories of origin of sea water salinity. Add a note on the classification of aquatic habitats based on its salt content
14. Discuss how light and temperature can influence aquatic ecosystems
15. Discuss the effects of climate change on ecosystems
16. Comment on ecological land classification
17. Discuss the third system of classification of the values of biodiversity
18. Comment on mobile links
19. Write notes on Kerala State Biodiversity Board
20. Write notes on Wildlife Protection Act 1972
21. Write notes on cave biomes
22. Discuss the impacts of exotics on biodiversity

(5 x 7 = 35)**PART C****Answer any 2 (12 marks each)**

23. Write an essay on the idea of plate tectonics and its present state
24. Write an essay on the factors that change the temperature and precipitation patterns over a geographic region
25. Give an account of the wildlife distribution in India
26. Give an account of the strategies for biodiversity conservation

(12 x 2 = 24)