

Reg. No

Name

MSc DEGREE END SEMESTER EXAMINATION - MARCH 2020**SEMESTER 4 : ZOOLOGY****COURSE : 16P4ZOOT13EL ; ENVIRONMENTAL SCIENCE - CONCEPTS AND APPROACHES***(For Regular - 2018 Admission and Supplementary - 2017, 2016 Admissions)*

Time : Three Hours

Max. Marks: 75

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

1. Describe the colloidal properties of soil particles
2. Comment on solubility of gases in water
3. Comment on the influence of *Corioli's* force on winds
4. Briefly describe Köppen–Geiger climate classification system
5. Mention the seasons experienced in India.
6. Define ecological land classification
7. Comment on the impacts of land degradation
8. Comment on the importance of zoos as a biodiversity conservation approach
9. What is a reference ecosystem?
10. What are the areas designated as CRZs in India?
11. Comment on cavernicolous adaptations
12. Comment on 'propagule pressure hypothesis' for invasion success

(2 x 8 = 16)

Section 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 solubility of gases in water and its ecological significance
15. Discuss the effects of climate change on human welfare
16. Comment on the role of topographic maps in landscape management
17. Give an account of biosphere reserves
18. Write notes on Kyoto Protocol
19. Write notes on Biodiversity Management Committee
20. Write notes on Biological Diversity Act 2002
21. Give an account of the biogeographical zones of India
22. Elaborate Elton's hypotheses on biological invasion

(5 x 7 = 35)

Section C
Answer any 2 (12 marks each)

23. Discuss the various soil formation regimes and add a note on climatic and biological factors involved
24. Essay on climate system
25. Give an account of the drivers of biodiversity loss
26. Give an account of the strategies for biodiversity conservation

(12 x 2 = 24)