

M. Sc DEGREE END SEMESTER EXAMINATION - APRIL 2021**SEMESTER 4 : ZOOLOGY****COURSE : 16P4ZOOT15EL : ENVIRONMENTAL MANAGEMENT AND DEVELOPMENT***(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 a paradigm shift?
2. Brief on the mangement practises for coastal areas.
3. What do you mean by topology creation?
4. What is digital cartography?
5. Brief on simulation modeling.
6. Comment on corporate social responsibility.
7. Comment on ISO 14001 family of standards.
8. Describe Leopald Matrix and comment on its uses
9. Explain mathematical modelling for impact prediction
10. What is meant by participatory environmental management?
11. Define Sustainable Development. Comment on its significance
12. Explain Brundland Commission report

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

13. Brief on the Commoner's laws of ecology.
14. Explain the management practises for grasslands.
15. Explain the applications of GIS in enviornmental studies.
16. Explain the process of digital image processing?
17. What is environment management? List out the objectives and tools related to environment management.
18. Briefly explain water foot print and carbon foot print.
19. A 'Cradle to Grave analysis' is important in reducing environmental impact of an industrial product'. Justify this statement
20. What is EMP? Comment on the merits and demerits of it
21. Write a brief note on: "Need of EIA for developing countries, especially India"
22. Discuss the role of UN in shaping today's world, with respect to environmental crisis

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

23. Write an essay on ecological footprint, carbon footprint and water footprint.
24. Describe any three methodologies of EIA process. Compare and comment on their merits and demerits
25. Environment & development are the two sides of the same coin, but a conflict of interest. Verify the statement
26. Discuss the role of UN in shaping today's world, with respect to environmental crisis

(12 x 2 = 24)