

Second Semester M.Sc. Degree Examination (CSS)- Zoology

ZY2CT06 Course VI - ECOLOGY: PRINCIPLES AND PRACTICES

Time: 3Hours

Total Weight: 30

Section I -Short answer type questions

Weight -1

Answer any 10 out 12

1. Define ecological indicators. Give examples.
2. What is Gaia hypothesis? Who are the Proponents?
3. Comment on ecotone and edge effect.
4. What are Ramsar sites? Give two examples in India.
5. Which are the major minerals that occur in India? Comment on its availability.
6. What is Green accounting? Why is it important?
7. Comment on Greenpeace.
8. Write a short note on the significance of the Western Ghats.
9. Briefly describe ecological succession.
10. Comment on carbon credit.
11. Write a short note on environmental impact assessment?
12. What is restoration ecology? Give two examples of success in eco-restoration.

Section 11- Short essay type questions

Weight -2

Answer any 5 out of 8

13. Explain how energy flow in an ecosystem obeys the laws of thermodynamics.
14. Describe the concept of meta-population.
15. Comment on species diversity indices and its application.
16. Discuss the Convention on Biological diversity (CBD) and its implications in India.

17. What are the possible ways to achieve sustainable development? Discuss.
18. Explain the role of bioremediation in environmental sanitation.
19. Discuss the concept of homeostasis in nature.
20. What is the principle of remote sensing? Describe the importance of remote sensing in ecological studies.

Section III- Long essay type questions

Weight-5

Answer any 2 out of 3

21. Explain population interactions. Comment on its ecological and evolutionary significance.
22. Write an essay on radio active pollution? Add a note on nuclear disasters.
23. Explain global climate change. Discuss the international efforts and discussions to mitigate climate change.