

(Pages : 3)

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Reg. No. : .....

Name : .....

**Fourth Semester M.Sc. Degree Examination, July 2024**

**Zoology**

**Special Subject — Environmental Physiology**

**ZO 242 : ENVIRONMENTAL MANAGEMENT**

**(2013 Admission Onwards)**

Time : 3 Hours

Max. Marks : 75

- I. Answer **any ten** of the following each in a paragraph. Each question carries **2** mark.
1. Define sustainable development.
  2. Comment on germplasm conservation.
  3. Fossil fuels.
  4. Briefly explain Ramsar sites and their importance.
  5. Define nodulation genes.
  6. Differentiate deforestation and afforestation.
  7. Comment on red data book.
  8. Briefly explain People's Biodiversity Register (PBR).
  9. Desalination
  10. Define greenhouse gases. Give two examples.
  11. What are the consequences of Ozone depletion?
  12. Briefly explain the formation of acid rain.

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13. Give two examples of the endangered fishes in India.
14. Two efforts were taken by the government of India for energy conservation.
15. Comment on Montreal protocol.

**(10 × 2 = 20 Marks)**

II. Answer **any six** of the following each not exceeding a page. Each question carries **4** marks.

16. Write a short note on principles of conservation.
17. Explain the threats of biodiversity.
18. What is remote sensing? Applications of remote sensing.
19. Comment on insecticidal toxin of *Bacillus thuringiensis*.
20. Briefly explain methods of solid waste management.
21. Write short note on energy conservation.
22. Explain soil enrichment by using microbes.
23. What are imperatives of sustainable development?
24. Write a short note on the role of non-governmental organizations in conservation.
25. Comment on importance of trawling ban.

**(6 × 4 = 24 Marks)**

III. Write short essay not exceeding **two** pages on any **three** of the following. Each question carries **7** marks.

26. Explain the role of media in environment awareness.
27. Give an account on human-animal conflict.
28. Comment on steps in sewage treatment.
29. Briefly explain the in-situ conservation measures in Kerala.
30. Describe baculoviruses as biocontrol agents.

**(3 × 7 = 21 Marks)**



IV. Answer **any one** of the following not exceeding **four** pages. The question carries **10** marks.

31. Describe the policies and laws in India for protecting the environment.

32. Write an essay on Environmental Impact Assessment (EIA).

**(1 × 10 = 10 Marks)**

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