

ACFEVS

Register No.

2018

ENVIRONMENTAL SCIENCE

Duration : 3 Hours

Max. Marks : 300

General Instructions to the Applicants :

- i) This Question Paper is descriptive type in Degree Standard.
- ii) There is no reservation of marks for neatness of execution and correctness of spelling in respect of this paper.

TNPSC SPECIMEN

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ENVIRONMENTAL SCIENCE

PART — A

- Note :**
- i) Answer not exceeding 50 words each.
 - ii) Each question carries three marks.
 - iii) Answer any thirty questions only out of thirty five Questions.

(30 × 3 = 90)

1. What is biosphere?
2. What is microcosm?
3. How heterotrophs consumes energy?
4. What is Montreal protocol?
5. What is Nitrogen fixation?
6. What is meant by "Biome"?
7. What is the basic concept of Ecology?
8. What are the major sources of surface water?
9. What is a mineral?

10. Define natural resources.
11. Define Biological wealth.
12. Mention the name of the Tiger Reserves located in Tamil Nadu.
13. What do you understand by Biodiversity and write the different levels of Biodiversity?
14. What is the importance of Swadhar Greh Scheme?
15. What is population education?
16. What is the importance of Sagar mala project?
17. What is the symptoms of Hepatitis?
18. Mention four types of floods.
19. What are all the aims of Integrated flood management?
20. State the year which was cyclone happened in Orissa and Speed.
21. Briefly mention the two types of air pollutants with suitable examples.
22. Mention the 3R in the solid waste management in order?

23. What is the unit to measure Noise? What is the level of normal conversation?
24. How GIS used for EIA studies?
25. Why post-monitoring or follow-up is most important for EIA studies?
26. Define the term mitigation as it relates to EIA.
27. What are the objectives of water (Prevention and Control of Pollution) Act, 1974?
28. What are the two treaties signed during Earth summit 1992?
29. What is IUCN? When was it founded?
30. What is CBD? What is the prime objective of CBD?
31. What is Red list or Red data book?
32. Define Radiative forcing.
33. Write on the significance of Kyoto protocol.
34. What is IPCC? When and where was it institutionalised?
35. What is flue-gas desulfurization?

PART — B

- Note :**
- i) Answer not exceeding 100 words each.
 - ii) Each question carries eight marks.
 - iii) Answer any fifteen questions only out of eighteen Questions.

(15 × 8 = 120)

36. Write an essay on soil profile.
37. Write a brief account on Net Primary productivity of Ecosystems.
38. How human activities could affect the Biogeochemical cycles?
39. Write a short note on principles, and methods of soil conservation.
40. Explain how rich and poor countries have different environmental impacts.
41. Give an account on the role of Non-Governmental organisations for wild life conservation.
42. Discuss the two ex situ conservation practices for faunal diversity in Tamil Nadu.
43. Describe the relationship between urbanization and environment.

44. **What are all the major ways to empower women? Explain the status of women welfare in India**
45. **Explain Disaster Management Information system and DMA in India.**
46. **Mention the states frequently affected by Drought in India? How the drought affects the National Economy.**
47. **Why we analyze DO, BOD and COD in water samples? Explain with prescribed standards in India.**
48. **What do you mean by SPM? What are all the sources, and impacts on environment and health?**
49. **How Geographic Information Systems (GIS) used for environmental management plan? Explain.**
50. **Narrate the salient features of the Water (Prevention and Control of Pollution) Cess Act, 1977.**
51. **Write a note on Earth Summit.**
52. **Write an account on the function of IUCN.**
53. **Write on how acid rain is formed and its effects on the environment.**

PART — C

- Note :**
- i) Answer not exceeding 200 words each.
 - ii) Each question carries fifteen marks.
 - iii) Answer any six questions only out of nine questions.

(6 × 15 = 90)

54. Describe the structure and functions of pond Ecosystem.
55. Critically discuss about watershed management in India.
56. Describe the various in situ conservation measures and their merits and demerits.
57. Describe the genetics of HIV, mode and course of infection, prevention and global scenario of AIDS.
58. What is earthquake? Enumerate its effects. What measures should be taken to mitigate this disaster?
59. How thermal power stations affects our aquatic bodies? Explain.
60. Demonstrate the different types of checklist in EIA process.
61. Write an essay on the role of Non-Governmental Organizations (NGO's) on conservation.
62. Write an essay on the causes and impacts of Ozone layer depletion with measures for remediation.