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22212

Velammal College of Engineering and Technology
Viraganoor, Madurai – 625 009
(Autonomous)

B.E./B.Tech. End Semester Examinations November 2023

Second/Fourth Semester
Time : 3 Hours

Regulation 2021
Max. Marks 100

21CH103 – Environmental Science

Answer ALL Questions
PART-A (10 x 2 = 20 Marks)

1. Define ecological succession.
2. Interpret the importance of Red Data book.
3. Classify the natural resources.
4. Summarize the environmental impacts of solar panel.
5. Outline the objectives of wildlife protection act.
6. Mention the sources of e-waste.
7. Illustrate the steps involved in disaster management.
8. Define environmental ethics.
9. What is EIA?
10. List the sections of ISO 14001.

Part – B (5 x 16 = 80 marks)

11. a) Explain the structure, components and functions of an ecosystem.

OR

- b) Identify and explain the various threats for endangered species and choose the suitable methods of conservation of it.

12. a) Summarize the causes and effects of deforestation and suggest a suitable prevention method for the same.

OR

- b) Interpret the environmental impacts of modern agriculture.

13. a) (i) Illustrate the causes, effects and control methods of Air pollution. (10)
(ii) Explain the Activated sludge process in waste water treatment. (6)

OR

- b) Demonstrate the municipal solid waste management method to diminish the land pollution.

14. a) (i) Demonstrate the causes, effects and management of flood and earthquake. (8)
(ii) What is value education? Explain the need for value education, and methods of imparting value education (8)

OR

- b) Discuss the following water conservation methods i) Rain water harvesting system and
ii) Watershed management

15. a) Outline the 17 Goals of Sustainable development.

OR

- b) Elucidate the causes, effects and control measures of ozone layer depletion (6)
ii) Make use of Salient features and benefits of green building, how you will rate a green building (10)