

Reg.No

23689

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

B.E./B.Tech. End Semester Examinations April 2024

Second/ Fourth Semester
Time : 3 Hours

Regulation 2021
Max. Marks 100

21CH103 - Environmental Science
(Common to all the branches)

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

1. State the scope of environmental studies.
2. Compare Endanger and Endemic species.
3. Outline the Impacts of overgrazing.
4. List out the role of an individual in conservation of natural resources.
5. Distinguish between point and non-point sources of water pollution.
6. Name the sources of soil pollution.
7. Specify the harmful effects of landslides?
8. Mention the objectives of Watershed Management.
9. Outline the benefits of Environmental Impact Assessment.
10. What is meant by ISO 14000?

Part – B (5 x 16 = 80 marks)

11. a) Describe the structure and function of an ecosystem and explain how they work together. How do living organisms interact with non-living elements?

OR

- b) What is meant by value of biodiversity? Explain different values of biodiversity.

12. a) Analyze the impacts of deforestation on the environment and list out the methods of conservation of forest resources.

OR

- b) Considering the environmental impacts of modern agriculture how might the intensive use of chemical fertilizers and pesticides in modern agriculture contribute to environmental degradation and biodiversity loss?

13. a) Can you list some common pollutants found in the air and explain their sources? Analyze the effects and control measures of air pollution.

OR

- b) Draw the flow chart for the process of solid waste management and how does the improper disposal of solid waste contribute to environmental degradation.

14. a) Explain various disaster management measures to be taken during floods, earthquake and tsunami.

OR

- b) Rainwater harvesting is a technique of capturing and storing of rainwater for further utilization. Justify the statement and explain the roof top rainwater harvesting method.

15. a) (i) Explain the causes, effects and control measures of ozone layer depletion.
(ii) Illustrate nuclear accidents and holocaust.

OR

- b) Outline the 17 Goals of Sustainable development