

**20P218**

(Pages: 1)

Name.....

Reg. No.....

**SECOND SEMESTER M.Sc. DEGREE EXAMINATION, APRIL 2021**

(CUCSS - PG)

**CC19P ESC2 C07 - FUNDAMENTALS OF ENVIRONMENTAL ENGINEERING**

(Environmental Science)

(2019 Admissions - Regular)

Time: Three Hours

Maximum: 30 Weightage

I. Answer any **four** questions. Each question carries 2 weightage:

1. Mention the effects of air pollutants on environment.
2. Explain any four sources of water pollution.
3. Define incineration.
4. Comment on landfill remediation.
5. List out any four characteristics of environmental engineering.
6. Write a note on physical pollution.
7. What do you mean by 'constructed wetlands'?

**(4 × 2 = 8 Weightage)**

II. Write a short essay on any **four** of the following. Each question carries 3 weightage:

8. Describe vermi composting and vermi-technology.
9. Explain primary, secondary and tertiary waste water treatment methods.
10. Write a short note on air pollutants and their characteristics.
11. What are the steps involved in waste disposal in landfills?
12. Briefly describe the measurement of water pollution and water quality parameters.
13. Discuss the ecological principles and environmental engineering.
14. Explain the 3 'R' technique in waste management.

**(4 × 3 = 12 Weightage)**

III. Write a long essay on any **two** of the following. Each question carries 5 weightage:

15. Explain on legislation related to management and handling of municipal solid wastes, bio-medical wastes and hazardous wastes.
16. Describe the treatment schemes for waste water in dairy, distillery, and tannery industries.
17. Discuss on the role of environmental engineering in the management of air pollution.
18. Describe the various types of physical pollution and their control techniques.

**(2 × 5 = 10 Weightage)**

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