

19P218

(Pages: 1)

Name.....

Reg. No.....

SECOND SEMESTER M.Sc. DEGREE EXAMINATION, APRIL 2020

(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. Define pyrolysis.
2. Explain the three 'R' technique in waste management.
3. Comment on vermi-technology.
4. What is meant by composting?
5. Write any four characteristics of secure landfills.
6. What do you mean by Environmental ethics?
7. What are hazardous wastes? Give two examples.

(4 x 2 = 8 weightage)

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

8. Explain waste disposal techniques in landfills.
9. Describe the concepts of industrial ecology and its applicability in environmental engineering.
10. Write a short note on sources of air pollution.
11. Briefly describe any five water quality parameters and its importance.
12. Discuss on the treatment schemes for waste water, dairy and distillery industries.
13. Write short notes on methanogenesis and bioreactors.
14. Explain the laws related to handling of municipal solid wastes.

(4 x 3 = 12 weightage)

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

15. Describe the treatment methods employed in solid waste management.
16. What are the sources of water pollution and describe in brief the various treatment methods employed to check water pollution?
17. Explain the management measures and control techniques employed to combat physical pollution.
18. Discuss the role of environmental engineering in controlling air pollution.

(2 x 5 = 10 Weightage)
