

18P223

(Pages: 2)

Name.....

Reg. No.....

SECOND SEMESTER M.Sc. DEGREE EXAMINATION, APRIL 2019

(Regular/Improvement/Supplementary)

(CUCSS - PG)

CC15P ES2 C07 - FUNDAMENTALS OF ENVIRONMENTAL ENGINEERING

(Environmental Science)

(2015 Admission onwards)

Time: Three Hours

Maximum: 36 Weightage

1. Answer *all* questions. Each question carries 1 weightage:

1. Physical Pollutants.
2. Composting.
3. Unit processes.
4. Biomarkers.
5. RRR
6. Looping.
7. Leachate.
8. Pyrolysis.
9. Vermiwash.
10. Gray smog.
11. Incineration.
12. Anaerobic reactors.
13. Point sources of pollutants.
14. Coagulation.

(14 x 1 = 14 Weightage)

II. Answer any *seven* questions. Each question carries 2 weightage:

15. Explain Electrostatic precipitators.
16. How ground level ozone is formed? Explain its significance.
17. What are the control measures for reducing the impacts of radiation pollution?
18. "Noise pollution can be controlled effectively". Substantiate the statement.
19. What is adiabatic lapse rate and how it is influencing the air pollutants?
20. Explain the fate of pollutant in the aquatic environment.
21. Discuss on the remedial measures for global climatic variations.
22. Write a brief note on bioremediation.
23. What are the different sampling methods for aquatic pollution?
24. Explain light pollution and its environmental significance.

(7 x 2 = 14 Weightage)

III. Write an essay on any *two* of the following. Each question carries 4 weightage:

25. Give a detailed account on waste water treatment process.

26. Explain different types of solid waste. Discuss the solid waste management.

27. Differentiate between primary and secondary air pollutants in the atmosphere. Explain its sources, formation and control measures.

28. Explain the following:

a) Trickling filters.

b) Bag filters.

c) Scrubbers.

d) Indoor air pollutants.

(2 x 4 = 8 Weightage)
