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Name:

Reg.No:

SECOND SEMESTER M.Sc. DEGREE EXAMINATION, APRIL 2023

(CBCSS - PG)

(Regular/Supplementary/Improvement)

CC19P ESC2 C07 - FUNDAMENTALS OF ENVIRONMENTAL ENGINEERING

(Environmental Science)

(2019 Admission onwards)

Time : 3 Hours

Maximum : 30 Weightage

Part-A

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

1. What are the different branches of Environmental Engineering?
2. Comment on the role of ecology in Environmental Engineering.
3. Explain the term self purification in aquatic ecology.
4. Define solid waste.
5. Define air pollution.
6. Comment on the importance of air pollution control devices.
7. Name the device or techniques used to control radiation pollution.

(4 × 2 = 8 Weightage)

Part-B

Answer any *four* questions. Each question carries 3 weightage.

8. Write a short note on ethics in environmental engineering.
9. Define cell and protein (enzyme) immobilization techniques with its advantages.
10. Explain waste water treatment process in tannery industry.
11. Explain the term incineration. What are the advantages and disadvantages of incineration?
12. Write a short note on leachate and landfill gas management in landfill.
13. What are the different method used for air pollution control?
14. Define radiation pollution and its different sources.

(4 × 3 = 12 Weightage)

Part-C

Answer any *two* questions. Each question carries 5 weightage.

15. Define artificial wetland and explain its role and importance in waste water treatment.

16. Explain reduction, reuse and recycling techniques in solid waste management.
17. Explain vermicomposting and vermi-technology.
18. Define radiation pollution ,its sources and control measures.

(2 × 5 = 10 Weightage)
