15P217

(Pages: 2)

Name.....................

Reg. No....................

SECOND SEMESTER M.Sc. DEGREE EXAMINATION, JULY 2016

(CUCSS - PG)

(Environmental Science)

CC 15P ES2 C07 - FUNDAMENTALS OF ENVIRONMENTAL ENGINEERING

(2015 Admission)

Time: Three Hours

Maximum: 36 Weightage

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

1. Electrostatic precipitators.
2. Secondary air pollutants
3. Bioreactors
4. Trans boundary air pollution
5. Activated sludge
6. Anaerobic lagoons
7. Constructed wetlands
8. Carbon credit
9. Radioactive decay
10. Trickling filter
11. Bio magnification
12. Secondary Recycling
13. Sustainability
14. PM $_{2..5}$ and PM $_{10}$

(14 x 1 = 14 weightage)

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

15. Discuss the different sources of water pollution
16. Describe the concepts of industrial ecology and its applicability in environmental engineering
17. Explain waste water treatment
18. Write down the techniques for controlling noise pollution
19. What are the environmental advantages of recycling? Describe the materials that are recycled and how recycling is accomplished?
20. What are some unresolved air pollution issues that deserve our attention?
21. Write notes on solid waste characterization
22. Explain the dynamics of air pollutants in Environment

23. Write notes on primary and secondary air pollutants
24. Discuss the methods for the treatment of sludge.

(7 x 2 = 14 weigh

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

25. Discuss the role of environmental Engineering in improving public and environmental health.
26. Write down the strategies for management of solid waste problem
27. Explain the methods for management of air pollution
28. Give an account of the techniques for monitoring water quality.

(2 x 4 = 8 weigh

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