

**18P326**

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Name.....

Reg. No.....

**THIRD SEMESTER M.Sc. DEGREE EXAMINATION, NOVEMBER 2019**

(Regular/Supplementary/Improvement)

(CUCSS-PG)

**CC15P ES3 C14 - WASTES AND WASTE MANAGEMENT**

(Environmental Science)

(2015 Admission onwards)

Time : Three Hours

Maximum : 36 Weightage

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

Explain the following:

1. Pyrolysis.
2. Sludge.
3. Grey water.
4. Leachate.
5. Phytoremediation.
6. Coagulation.
7. Incineration.
8. Composting.
9. Hazardous waste.
10. 3Rs
11. MSW
12. Steps in waste management.
13. Vermiwash.
14. Type of earthworms used in vermicomposting.

**(14 x 1 = 14 Weightage)**

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

15. Explain landfills.
16. Explain the characteristics of waste water from paper and pulp industries.
17. What are the treatment techniques for waste water from a distillery?
18. What is a bioreactor?
19. Explain the sources of hazardous waste.
20. Briefly explain the impacts of nuclear waste.
21. What are the treatment techniques for biomedical waste?
22. Explain the status of waste generation across the world.

23. Explain Vermicomposting with a neat diagram.

24. Discuss about the reuse of solid waste.

**(7 x 2 = 14 Weightage)**

III. Answer any *two* questions. Each question carries 4 weightage.

25. Give an account on bioremediation techniques for waste water treatment.

26. Briefly explain various sources of water pollution, and types of pollutants in Kerala.

27. Explain various steps in waste water treatment.

28. Give a detailed account on solid waste management.

**(2 x 4 = 8 Weightage)**

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