

17P326

(Pages: 2)

Name:

Reg. No.....

THIRD SEMESTER M.Sc. DEGREE EXAMINATION, NOVEMBER 2018

(Regular/Supplementary/Improvement)

(CUCSS - PG)

CC15P ES3 C14 - WASTE AND WASTE MANAGEMENT

(Environmental Science)

(2015 Admission onwards)

Time : Three Hours

Maximum : 36 Weightage

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

1. What is activated sludge?
2. Give two examples for hazardous waste.
3. Explain pyrolysis.
4. What is 3R in waste management?
5. Define leachate.
6. Which type of waste is related to Love canal incident?
7. Define coagulation.
8. Explain vermin wash.
9. Define bioreactors.
10. Which stage of the waste water treatment the nutrients are removed?
11. The year implementation of the Hazardous waste management rules in India.
12. What type of treatment is good for Nuclear waste?
13. Give an example for commonly used earthworms in vermicomposting.
14. Define pipe composting.

(14 x 1 = 14 Weightage)

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

15. Explain decentralized waste management.
16. Briefly explain the types of waste.
17. What are the sources of liquid waste? Explain grey water.
18. Explain composting? what are the factors affecting?
19. Explain Trickling filter.
20. Briefly explain waste management in distillery.
21. Explain vermicomposting.
22. Describe biomedical waste management.

23. What are sanitary landfills?
24. Explain Thermal waste management techniques.

(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 type and characteristics of solid waste generated in Kerala.

Give your suggestions for the management.

26. Give an account on the hazardous waste management in India.

27. Explain various stages of waste water treatment.

28. Explain the following:

- a) Types of landfills.
- b) Anaerobic waste water treatment.

(2 x 4 = 8 Weightage)
