

15P317

(Pages:2)

Name.....

Reg. No.....

THIRD SEMESTER M.Sc. DEGREE EXAMINATION, NOVEMBER 2016
(CUCSS-PG)
(Environmental Science)
CC15PES3 C14 -Waste and Waste Management
(2015 Admission)

Time : Three Hours

Maximum : 36 Weightage

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

1. What is hazardous waste?
2. What is Pyrolysis?
3. Solid waste generation rate in Kerala
4. Define garbage
5. What is proximate analysis in municipal solid waste
6. What you mean by energy content of municipal solid waste
7. What is a secure landfill?
8. Identify the 3Rs used in waste management
9. What is biomedical waste?
10. What is mean by volume reduction in solid waste?
11. Define Methanogenesis
12. What is a Bioreactor?
13. Explain Vermiwash
14. Comment on Windrow composting

(14 x 1 = 14 weightage)

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

15. Identify the types and sources of solid waste
16. Recycling and reuse of solid waste
17. Write note on different types of sanitary landfills
18. Discuss the leachate problem in landfill sites and how it is managed.
19. Give an account of composting
20. Discuss the management of Biomedical waste
21. Comment on the various legislation on management of municipal solid waste
22. Briefly explain cell and protein immobilisation techniques
23. Enumerate the primary treatment techniques of waste water
24. Narrate one success story of waste management in India

(7 x 2 = 14 weightage)

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

25. Write an essay on various waste management approaches and handling of domestic wastes
26. Give an account of the generation, treatment and management of nuclear waste.
27. Briefly describe the treatment schemes for tannery and sugar industry waste water
28. Write an essay on various aspects of vermicomposting. List out its advantages.

(2 x 4 = 8 weightage)
