

**2023/TDC(CBCS)/EVEN/SEM/
EESDSE-603T/207**

TDC (CBCS) Even Semester Exam., 2023

ECOLOGY AND ENVIRONMENTAL SCIENCE

(6th Semester)

Course No. : EESDSE-603T

(Solid Waste Management)

Full Marks : 50

Pass Marks : 20

Time : 3 hours

*The figures in the margin indicate full marks
for the questions*

SECTION—A

Answer any *fifteen* of the following questions :

1×15=15

1. Define solid waste.
2. Give one example of industrial effluent.
3. Name two factors responsible for land degradation.

(2)

4. What is sludge?
5. What are the sources of hazardous waste?
6. What is landfill?
7. Name two biomedical wastes.
8. What are the solid waste disposal techniques?
9. Give two examples of non-hazardous industrial waste.
10. What is stack emission monitoring?
11. What is effluent treatment plant?
12. What are the basic parameters of wastewater?
13. What is the full form of RDF?
14. Define gasification.
15. Name one green technique for waste treatment.
16. What is resource recovery?

(3)

17. How many categories of wastes are defined in the Biomedical Waste (Management and Handling) Rules, 1998?
18. Give one example of hazardous waste.
19. When was the Municipal Solid Wastes (Management and Handling) Rules introduced in India?
20. Give one example of green products.

SECTION—B

Answer any *five* of the following questions : 2×5=10

21. Mention some groundwater pollutants.
22. What is the impact of industrial effluents on aquatic life?
23. What are the characteristics that makes a waste hazardous?
24. What is the difference between pyrolysis and incineration?
25. What is sewage treatment plant?
26. How does industrial waste affect soil?

(4)

27. What is the difference between reuse and recycle?
28. What is mechanical biological waste treatment?
29. What is the objective of the Municipal Solid Wastes (Management and Handling) Rules, 2000?
30. Mention the benefits of ecofriendly products.

SECTION—C

Answer any *five* of the following questions : 5×5=25

31. How does solid waste affect the environment and human health?
32. What are the types of mining wastes? Discuss the impact of mining wastes on environment. 2+3=5
33. Describe different techniques used in collection of solid wastes.
34. How is traditional landfill different from sanitary landfill design?

(5)

35. Describe the types of industrial wastes with examples.
36. Give a detailed account of industrial waste management and its importance.
37. Write notes on combustion and pyrolysis.
38. Write an essay on composting and anaerobic digestion.
39. Give a detailed account of management and handling of municipal solid wastes.
40. Write a note on ecofriendly products.
