

**2021/TDC (CBCS)/EVEN/SEM/
EESDSE-603T/068**

**TDC (CBCS) Even Semester Exam.,
September—2021**

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. Define effluent.**
- 3. What is mining waste?**
- 4. How solid wastes come in contact of human body?**

5. What is the source of mercury (Hg) toxicity in human?
6. What is groundwater pollution?
7. What is incineration?
8. What is compaction?
9. What is pyrolysis?
10. What is landfill?
11. What is biomedical waste?
12. What is municipal waste?
13. What are toxic (industrial) wastes?
14. What are chemical (industrial) wastes?
15. What are hazardous (industrial) wastes?
16. What are non-hazardous (industrial) wastes?
17. Name one liquid (industrial) waste.
18. Name one solid (industrial) waste.

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19. What do you mean by 4R?
20. What is composting?
21. What is anaerobic digestion?
22. What is combustion?
23. What is gasification?
24. What is WTE?
25. Which Rules guide solid waste management in India?
26. Which Rules guide e-waste management in India?
27. Which Rules guide biomedical waste management in India?
28. Which Rules guide construction and demolition waste management in India?
29. Which Rules guide plastic waste management in India?
30. Which Rules guide hazardous waste management in India?

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SECTION—B

Answer any *five* of the following questions :

2×5=10

31. Discuss the impacts of solid waste on human health.
32. Discuss the impacts of solid waste on plant health.
33. Describe briefly the technique of collection of solid wastes.
34. Discuss the technique of storage of solid waste.
35. What is stack emission control?
36. What is emission monitoring?
37. What is reductive dehalogenation?
38. What is refuse-derived fuel (RDF)?
39. What is e-waste exchange policy?
40. State what you mean by segregation and packaging of biomedical wastes.

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SECTION—C

Answer any *five* of the following questions :

5×5=25

41. Write a note on the impact of industrial effluent discharge on water quality and aquatic life. 5
42. Write a note on the effect of landfill on soil characteristics. 5
43. Write a note on the drawbacks of waste management technique. 5
44. Discuss briefly traditional and sanitary landfill design. 5
45. Write short notes on the following : $2\frac{1}{2}+2\frac{1}{2}=5$
(a) Effluent treatment plant
(b) Sewage treatment plant
46. Write a note on the industrial waste management. 5
47. Describe briefly the green techniques for waste management. 5
48. Write a note on the biological treatment of wastes. 5

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49. Write the salient features of plastic waste management rules. 5
50. Write a note on the responsibility of importer of hazardous wastes as per the hazardous waste management rules. 5

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