

**2024/TDC (CBCS)/EVEN/SEM/
EESDSE-602T/154**

TDC (CBCS) Even Semester Exam., 2024

ECOLOGY AND ENVIRONMENTAL SCIENCE

(6th Semester)

Course No. : EESDSE-602T

(Solid Waste Management)

Full Marks : 50

Pass Marks : 20

Time : 3 hours

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

UNIT—I

1. Answer any *three* of the following questions :

1×3=3

- (a) Define land degradation.**
- (b) Give one example of solid waste.**
- (c) What is water pollution?**
- (d) What is meant by effluent?**

(2)

2. Answer any *one* of the following questions : 2

- (a) What is the impact of solid waste on environment?
- (b) What is mining waste?

3. Answer any *one* of the following questions : 5

- (a) Discuss the effect of landfill leachate on soil characteristics.
- (b) Give a brief account of groundwater pollution.

UNIT—II

4. Answer any *three* of the following questions :

1×3=3

- (a) Name two municipal wastes.
- (b) What is thermal treatment?
- (c) Define gasification.
- (d) What is pyrolysis?

5. Answer any *one* of the following questions : 2

- (a) What are the drawbacks in waste management techniques?
- (b) What is incineration?

(3)

6. Answer any *one* of the following questions : 5

- (a) Describe different techniques used in storage and transportation of solid waste.
- (b) State the drawbacks of solid waste management techniques.

UNIT—III

7. Answer any *three* of the following questions :

1×3=3

- (a) What is emission?
- (b) Give one example of hazardous waste.
- (c) What is industrial waste?
- (d) What is sewage?

8. Answer any *one* of the following questions : 2

- (a) What is effluent treatment plant?
- (b) What is the difference between reuse and recycle?

9. Answer any *one* of the following questions : 5

- (a) Write an essay on the effect of industrial waste on water and soil.
- (b) Write a note on industrial waste management.

(4)

UNIT—IV

10. Answer any *three* of the following questions :

1×3=3

- (a) What is the full form of WTE?
- (b) What is recycle?
- (c) What is composting?
- (d) Define combustion.

11. Answer any *one* of the following questions :

2

- (a) What is anaerobic digestion?
- (b) What is landfill gas?

12. Answer any *one* of the following questions :

5

- (a) Give a detailed account of green techniques for waste treatment.
- (b) Write a detailed account on 4R.

UNIT—V

13. Answer any *three* of the following questions :

1×3=3

- (a) Give one example of ecofriendly products.
- (b) Give one example of biomedical waste.

(5)

(c) When was the Biomedical Waste (Management and Handling) Rules introduced?

(d) Give one example of municipal solid waste.

14. Answer any *one* of the following questions :

2

- (a) What is municipal solid waste?
- (b) What are the objectives of Biomedical Waste (Management and Handling) Rules?

15. Answer any *one* of the following questions :

5

- (a) Give a detailed account of management and handling of hazardous wastes.
- (b) Describe the features of Municipal Solid Wastes (Management and Handling) Rules.

★ ★ ★