

UNIT – IV: Landfills

Multiple Choice Questions (MCQs) with Answers

1. A landfill is primarily used for:

- A) Waste collection
- B) Waste transportation
- C) Final disposal of solid waste
- D) Waste segregation

Answer: C) Final disposal of solid waste

2. The modern method of waste disposal with environmental protection measures is called:

- A) Open dumping
- B) Sanitary landfill
- C) Composting
- D) Incineration

Answer: B) Sanitary landfill

3. Which of the following is a type of landfill?

- A) Area method
- B) Trench method
- C) Depression method
- D) All of the above

Answer: D) All of the above

4. The lifespan of a landfill mainly depends on:

- A) Waste quantity and landfill capacity
- B) Rainfall only
- C) Wind speed only
- D) Soil color

Answer: A) Waste quantity and landfill capacity

5. Which of the following is a common landfill problem?

- A) Leachate generation
- B) Odor emission
- C) Gas production
- D) All of the above

Answer: D) All of the above

6. The primary purpose of a landfill liner is to:

- A) Increase waste volume
- B) Prevent leachate migration into the soil and groundwater
- C) Improve waste collection
- D) Generate methane gas

Answer: B) Prevent leachate migration into the soil and groundwater

7. Which of the following is commonly used as a landfill liner material?

- A) Clay
- B) HDPE geomembrane
- C) Compacted soil
- D) All of the above

Answer: D) All of the above

8. Leachate is:

- A) Gas generated in landfills
- B) Liquid formed when water percolates through waste
- C) Solid residue after composting
- D) Waste collection vehicle

Answer: B) Liquid formed when water percolates through waste

9. Landfill monitoring is carried out to:

- A) Assess environmental impacts
- B) Increase waste generation
- C) Reduce recycling activities
- D) Eliminate waste collection

Answer: A) Assess environmental impacts

10. Landfill reclamation refers to:

- A) Abandoning the landfill
- B) Reusing or restoring closed landfill sites for beneficial purposes
- C) Increasing waste dumping
- D) Removing landfill liners

Answer: B) Reusing or restoring closed landfill sites for beneficial purposes

Fill in the Blanks with Answers

1. A scientifically designed waste disposal site is called a ____ landfill.

Answer: sanitary

2. The earliest method of waste disposal was ____ dumping.

Answer: open

3. Area, trench, and depression methods are types of ____.

Answer: landfills

4. The useful operating period of a landfill is called its ____.

Answer: life

5. The liquid generated by water passing through waste is called ____.

Answer: leachate

6. Landfill liners are provided to protect ____ water from contamination.

Answer: groundwater

7. HDPE stands for High-Density Polyethylene and is used as a landfill ____.

Answer: liner

8. Methane is a major landfill ____.

Answer: gas

9. Environmental performance of a landfill is checked through landfill ____.

Answer: monitoring

10. The process of restoring closed landfill sites for future use is called landfill ____.

Answer: reclamation