

5. The collection systems in which the containers used for the storage of wastes remain at the point of waste generation except when moved for collection is known as
 - (a) Hauled- container system
 - (b) Stationary container system
 - (c) Hauled- container systems
 - (d) All the above

6. _____ loaders generally service commercial and industrial businesses using large waste containers with plastic lids or wheely bins being the smaller household version.
 - (a) Rear loaders
 - (b) Automated Side loaders
 - (c) Front loaders
 - (d) Grapple trucks

7. Recycling, composting, and source reduction are designed to ----- the amount of waste entering landfills.
 - (a) Measure
 - (b) Report
 - (c) Analyze
 - (d) Decrease

8. _____ involves conversion of waste into gaseous, liquid and solid conversion products with concurrent or subsequent release of heat energy.
 - (a) Hydrolysis processes
 - (b) Thermal treatment
 - (c) Chemical treatment
 - (d) Biological treatment

9. Most municipal solid waste ends up in -----
 - (a) Sanitary landfill
 - (b) Composting Yard
 - (c) Open dumps
 - (d) Incinerator

10. How many types of landfills are there -----
 - (a) 3
 - (b) 2
 - (c) 5
 - (d) 4

PART - B (5 x 2 = 10 Marks)

11. List out biodegradable and non-biodegradable wastes
12. Define Shredding.
13. What is meant by transfer station?
14. What is meant by Bio-methanation?
15. What is biomedical waste?

PART - C (5 x 16 = 80 Marks)

16. (a) Brief the public health and environmental impacts in Municipal Solid Waste Management (MSWM). (16)
- Or
- (b) Summarize the characteristics of solid waste. (16)
17. (a) (i) Describe about the various on site storage methods (8)
(ii) Explain the methods of Waste minimization. (8)
- Or
- (b) (i) Describe about the shredding process. (6)
(ii) Explain about the waste processing techniques (10)
18. (a) Explain the constraints involved in collection and transfer of Solid waste. (16)
- Or
- (b) (i) Explain the collection routing and scheduling. (8)
(ii) Describe about the hauled container system. (8)
19. (a) Classify the composting methods and explain in detail (16)
- Or
- (b) Write short notes on
- (i) Incineration. (4)
(ii) Vacuum pyrolysis. (4)
(iii) Composting. (4)
(iv) Landfilling. (4)
20. (a) (i) Describe the Disposal methods. (8)
(ii) Illustrate sanitary landfill with its vital parts (8)
- Or
- (b) Specify in brief about the parameters to be considered while choosing a landfill site (16)

