Program: BE Civil Engineering

Curriculum Scheme: Revised 2016

Examination: Final Year Semester VII

Course Code: CE -DLO 7042 and Course Name: Solid Waste Management

Time: 1 hour Max. Marks: 50

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Note to the students:- All the Questions are compulsory and carry equal marks .

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| Q1. | Which one of the following improves the efficiency of Solid Waste Management? |
| Option A: | Composting |
| Option B: | Collection |
| Option C: | Processing |
| Option D: | Disposal |
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| Q2. | The number of functional components of solid waste management is: |
| Option A: | 5 |
| Option B: | 3 |
| Option C: | 6 |
| Option D: | 4 |
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| Q3. | The method in which number of individual loads and the corresponding waste characteristics are noted over a specified time period is |
| Option A: | Load count analysis |
| Option B: | Weight volume analysis |
| Option C: | Material mass balance analysis |
| Option D: | Weigh balance analysis |
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| Q4. | Which of the following statement regarding recycling is wrong? |
| Option A: | Saves precious resources |
| Option B: | Require stable market |
| Option C: | Improves efficiency of treatment processes |
| Option D: | Increases the needs for mining virgin materials |
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| Q5. | Transfer stations are needed when |
| Option A: | disposal sites are far from collection routes |
| Option B: | disposal sites are nearer to collection routes |
| Option C: | disposal sites are nearby vicinity |
| Option D: | haul distances to processing centers are less |
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| Q6. | Depending upon method used to upload the transport vehicles, transfer stations are classified as, |
| Option A: | level site |
| Option B: | split level site |
| Option C: | direct load |
| Option D: | indirect load |
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| Q7. | In level site transfer station, refuse transferred from one vehicle to another |
| Option A: | manually |
| Option B: | mechanically |
| Option C: | by using crane |
| Option D: | by using tractor |
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| Q8. | --------- is used as density separation equipment, |
| Option A: | vibrating screens |
| Option B: | air classifier |
| Option C: | rotary screens |
| Option D: | hammer mill |
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| Q9. | Which of the following methods is better for the solid waste problem? |
| Option A: | Recycling |
| Option B: | Landfilling |
| Option C: | Recycling & Landfilling |
| Option D: | Reuse |
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| Q10. | Which of the following can be recycled many times? |
| Option A: | Wood |
| Option B: | Plastic |
| Option C: | Aluminium |
| Option D: | Organic materials |
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| Q11. | Objective of composting is |
| Option A: | only to reduce the original volume of waste |
| Option B: | only to retain the maximum nutrient |
| Option C: | to reduce the original volume of waste and to retain the maximum nutrient |
| Option D: | to convert solid waste into ash |
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| Q12. | Pyrolysis is the thermal processing of waste in the \_\_\_\_\_\_\_\_\_\_ |
| Option A: | Absence of Oxygen |
| Option B: | Partially Stoichiometric Conditions |
| Option C: | Excess Air Condition |
| Option D: | Stoichiometric Conditions |
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| Q13. | The method of refuse disposal involving burial in trenches is called as…. |
| Option A: | Incineration |
| Option B: | Pulverization |
| Option C: | Land filling |
| Option D: | Composting |
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| Q14. | Sanitary landfill may cause trouble during…. |
| Option A: | Peak monsoon season |
| Option B: | Peak winter season |
| Option C: | Peak summer season |
| Option D: | humid climate |
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| Q15. | Which gas is produced in open dumps from decomposition of biodegradable waste? |
| Option A: | Ethane |
| Option B: | Methane |
| Option C: | Propylene |
| Option D: | ethylene |
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| Q16. | Which of the following is not a stage of anaerobic digestion? |
| Option A: | hydrolysis |
| Option B: | acidogenesis |
| Option C: | acetogenesis |
| Option D: | mutagenesis |
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| Q17. | A liner system at the base and sides of the Sanitary Landfill which prevents; |
| Option A: | migration of ground water |
| Option B: | migration of loose soil |
| Option C: | migration of leachate or gas to the surrounding soil |
| Option D: | migration of deposited waste |
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| Q18. | Landfill Liners are designed and constructed to provide |
| Option A: | mixing of waste |
| Option B: | work as fencing |
| Option C: | barrier between the waste and the environment |
| Option D: | allow the entry of rats in landfill |
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| Q19. | Which toxic compound is not found in e-waste? |
| Option A: | Mercury |
| Option B: | Cadmium |
| Option C: | Neon |
| Option D: | Lead |
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| Q20. | What is the hazardous pollutant released from inductive coils? |
| Option A: | Arsenic |
| Option B: | Barium |
| Option C: | Cobalt |
| Option D: | Copper |
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| Q21. | The color code of plastic bag, for disposing of microbial laboratory culture waste |
| Option A: | black |
| Option B: | red |
| Option C: | blue |
| Option D: | white |
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| Q22. | ------- is not a source of hazardous waste |
| Option A: | Research laboratories |
| Option B: | Mineral processing sites |
| Option C: | Kitchen wastes |
| Option D: | Agricultural facilities |
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| Q23. | Packaging material used for hazardous waste should |
| Option A: | react with hazardous waste |
| Option B: | absorb hazardous waste |
| Option C: | inert and not react with hazardous waste |
| Option D: | mix with hazardous waste |
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| Q24. | What is the hazardous pollutant released from circuit boards? |
| Option A: | Arsenic |
| Option B: | Barium |
| Option C: | Lead |
| Option D: | Copper |
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| Q25. | Why is recycled paper banned for use in food containers? |
| Option A: | Because it creates a lot of spaces |
| Option B: | Because it creates contamination |
| Option C: | Because paper can be used only one time |
| Option D: | Because paper is very thick and can’t cover the food containers |