

**STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI-86**  
**(For candidates admitted during the academic year 2016–17 & thereafter)**

**SUBJECT CODE: 16VS/VM/WM36**  
**B.Voc. DEGREE EXAMINATION, NOVEMBER 2018**  
**SUSTAINABLE ENERGY MANAGEMENT**  
**THIRD SEMESTER**

**COURSE : MAJOR CORE**

**PAPER : WASTE SEGREGATION AND MANAGEMENT**

**TIME : 6 HOURS**

**MAX.MARKS:100**

**(Theory: 50 marks + Practical: 50 marks)**

**SECTION – A**

**ANSWER ALL QUESTIONS:**

**(20x1=20)**

**I. Choose the correct answer:**

1. Garbage is mostly found in  
a) glass                      b) food waste                      c) wood                      d) paper
2. Examples of non-biodegradable waste include plastic, \_\_\_\_\_, and radioactive waste  
a) Banana peel                      b) newspaper                      c) nylon                      d) Potato
3. What does 3Rs stands for?  
a) Reuse, Rethink, Recycle                      b) Recycle, Reduce, Replace  
c) Rethink Reduce, Replace                      d) Reduce, Reuse, Recycle
4. Deep-well injection is most likely to pollute \_\_\_\_\_ if the hazardous waste escapes from storage.  
a) Food                      b) groundwater                      c) oceans                      d) the air
5. Problem of solid waste disposal can be reduced through  
a) Recycling                      b) more timber                      c) lesser pollution                      d) population control

**II. Fill in the blanks:**

6. Waste from agricultural activities \_\_\_\_\_.
7. \_\_\_\_\_ waste can be broken down by living things.
8. Recycling, composting, and source reduction are designed to \_\_\_\_\_ the amount of waste entering landfills.
9. Landfill Methane is the Largest Source of \_\_\_\_\_ Emission.
10. Positive Colour for Recycling \_\_\_\_\_.

**III State whether True or False:**

11. MSW contains only organic matter.
12. Landfill is the most common method of disposing waste.
13. The amount of waste that is recycled and composted has increased since the 1960s.
14. It is acceptable to leave the lid off a jug of solvent in a chemical fume hood and allow the solvent to evaporate.
15. Food and woolen waste are biodegradable nature.

**IV Answer in a sentence or two:**

16. Define Per capita waste generation.
17. What do you mean by recycling?
18. What is BOD and COD.
19. Is an incinerator good for the environment? Comment.
20. What is WtE?

**SECTION – B****ANSWER ANY SIX QUESTIONS:****(6x3=18)**

21. What are the types of containers and collection vehicles used for the collection of solid waste?
22. What are the physical compositions of Municipal Solid Waste Analysis?
23. Describe the various guidelines for selection of a landfill site.
24. Classify the various characteristics of solid waste.
25. Write short note on Reuse of material.
26. Write a note on food waste.
27. Why Health Safety policies are necessary?
28. What are the Environmental effects on chemical and pharmaceutical waste?
29. How does Vermicomposting done?
30. Write down the steps to complete a waste audit.

**SECTION – C****ANSWER ANY TWO QUESTIONS:****(2x6=12)**

31. Describe the term “Segregation of solid waste”. Explain the best practices followed in segregating the waste
32. Is incineration better than landfill? Explain in detail the Incineration power plant.
33. Explain in detail about the how the radioactive waste affects our environment.
34. Write note on Reuse of material, Recovery of energy and material, Energy generation from waste

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