

STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI-86
(For candidates admitted during the academic year 2016 – 2017& thereafter)

SUBJECT CODE: 16VS/VM/WM36
B.Voc. DEGREE EXAMINATION, NOVEMBER 2022
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. Which ONE of the following items does belong in the blue container?
a. Banana b. plastic bottle c. Straw d. Battery
2. In land filling method, the biggest disadvantage is formation of_____
a. Solid waste b. Leachate c. Underground pollution d. Odour
3. Which of the following is not biodegradable
a. Cellulose b. carbon paper c. Newspaper d. Manure
4. Which of the following is not an e-waste?
a. Mercury b. Mobile phone c. TV appliances d. Stainless steel
5. The most serious environmental effect posed by hazardous wastes is
a. Air pollution b. Contamination of groundwater
b. Increased use of land for landfills d. odor

II. Fill in the blanks:

6. Concentration of carbon dioxide in atmosphere is _____ ppm
7. _____ coloured bin is used for organic waste materials.
8. Deep-well injection is most likely to pollute _____
9. Positive colour code for anatomical waste _____
10. Best types of worms for vermicomposting is_____

III State whether True or False:

11. Municipal solid waste only contains organic matters
12. Labeling a container simply as “waste” is acceptable.
13. Pathological waste from Hospitals requires special handling.
14. Hotels and Restaurants are under Orange category industries.
15. All e-wastes are recyclable.

IV Answer in a sentence or two:

16. What does aerobic mean?
17. What waste goes to landfill?
18. Mention different types of food processing wastes.
19. List out the types of hazardous waste.
20. What do the 3 R's stand for?

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

21. What are the benefits of waste minimization?
22. Write down the colour codes for different types of solid wastes.
23. Which waste cannot be incinerated? Why?
24. Why landfills are bad to the environment?
25. Distinguish between BOD and COD.
26. Give the significance of processing food waste.
27. How do you treat hazardous and medical waste?
28. How radioactive waste is disposed?
29. Which is better? “Composting” or “Vermicomposting” Justify your statement.
30. What are the Objectives of a Waste Audit?

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

31. Elucidate the different types and properties of solid wastes.
32. What type of waste is incinerated? Explain in detail. How does waste incineration affect the environment?
33. Discuss about the protective equipment, hygiene and standard operating procedures to collect the waste.
34. Explain the various steps involved in waste minimization audit.
