

No. of Printed Pages : 4  
Roll No. ....

220756B

**5th Sem.**  
**Branch : Civil**  
**Subject : Solid Waste Management**

Time : 3 Hrs. M.M. : 60

**SECTION-A**

**Note: Multiple Choice Questions. All Questions are compulsory. (6x1=6)**

- Q.1 Which of the following/s is a bio-degradable waste? (CO1)  
a) Food waste      b) Garden Waste  
c) Paper Waste      d) All of these
- Q.2 The process of decomposing bio-degradable waste is called \_\_\_\_\_. (CO3)  
a) Incineration      b) Composting  
c) Pulverisation      d) Pyrolysis
- Q.3 Cardboard and cartons waste is disposed of in \_\_\_\_\_. (CO2)  
a) Green Bin      b) Blue Bin  
c) Black Bin      d) None of these
- Q.4 Non-Ferrous metals can be separated by \_\_\_\_\_. (CO2)  
a) Screening  
b) Magnetic Separation  
c) Eddy current Separation  
d) Ballistic Separation

- Q.5 Which of the following is not a waste treatment method for biomedical waste? (CO5)  
a) Incineration      b) Chemical Disinfecting  
c) Autoclaving      d) Sieving
- Q.6 The major source of e-waste for the constituent Lead is \_\_\_\_\_. (CO5)  
a) Mother-Board      b) Computer housing  
c) Chip resistors      d) Solder in PCBs

**Section-B**

**Note: Objective/Completion type questions. All questions are compulsory. (6x1=6)**

- Q.7 Define Solid Waste. (CO1)
- Q.8 According to the Solid waste management rules, a \_\_\_\_\_ is a person who collects recyclable waste from streets, dumping grounds, and parks for a living. (CO2)
- Q.9 Name at least four hazardous solid wastes. (CO1)
- Q.10 \_\_\_\_\_ is a contaminated liquid that seeps through solid waste disposal sites and accumulates contaminants. (CO4)
- Q.11 Define pyrolysis. (CO4)
- Q.12 Define e-waste. (CO5)

**Section-C**

**Note: Short answer type Question. Attempt any eight questions out of Ten Questions. (8x4=32)**

- Q.13 Name the different types of Solid waste and explain any two with examples. (CO1)

- Q.14 Describe any four physical properties of Municipal Solid waste. (CO1)
- Q.15 What is the necessity of the transfer station concerning the transportation of Municipal Solid waste? (CO2)
- Q.16 What is the principle of the composting process?(CO3)
- Q.17 What is the Vermi-Composting? (CO3)
- Q.18 What factors should be considered for site selection for a landfill? (CO4)
- Q.19 Describe the various types of incinerators. (CO4)
- Q.20 What are the various sources of bio-medical waste? (CO5)
- Q.21 Describe the classification of the bio-medical waste. (CO5)
- Q.22 What are the ill effects of the e-waste? (CO5)

#### **Section-D**

**Note: Long answer questions. Attempt any two question out of three Questions. (2x8=16)**

- Q.23 List the tools and equipment used to store and collect the Municipal Solid waste. (CO2)
- Q.24 Differentiate between the Bangalore Method and the Indore method of composting. (CO3)
- Q.25 What is a solid waste management hierarchy? Also, explain various waste prevention and waste reduction techniques. (CO4)