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Roll No. ....

220756B

**5th Sem / 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 non-biodegradable waste? (CO1)

- a) Plastics                      b) Tyres
- c) Metals                      d) All of the above

Q.2 The process of burning solid waste is called \_\_\_\_\_. (CO4)

- a) Incineration              b) Composting
- c) Pulverisation              d) Pyrolysis

Q.3 Which of the following coloured bin is used for hazardous waste? (CO2)

- a) Green Bin                  b) Blue Bin
- c) Yellow Bin                  d) Black Bin

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Q.4 The major source of e-waste for constituent Cadmium is \_\_\_\_\_. (CO5)

- a) Mother-board              b) computer housing
- c) Chip resistors              d) Solder in PCBs

Q.5 The process of recovering the chemical energy of organic waste by destructive distillation is called \_\_\_\_\_. (CO4)

- a) Incineration              b) Composting
- c) Pulverisation              d) Pyrolysis

Q.6 E-waste means \_\_\_\_\_. (CO5)

- a) Electrical waste              b) Energy waste
- c) Emergency waste              d) Electronic waste

**SECTION-B**

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

Q.7 What are the various sources of Solid waste? (CO1)

Q.8 A \_\_\_\_\_ is a building or processing site that temporarily stores, consolidates, and aggregates waste. (CO2)

Q.9 Define composting. (CO3)

Q.10 The chemical composition of the Biogas released from the landfill is \_\_\_\_\_. (CO4)

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Q.11 Waste with a calorific value of 1500 Kcal/kg or more can be used in waste-to-energy plants for \_\_\_\_\_.  
(CO4)

Q.12 Define biomedical waste. (CO5)

### SECTION-C

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

Q.13 Classify the solid waste based on its hazardous properties with at least two examples. (CO1)

Q.14 Describe any four chemical properties of Municipal Solid waste. (CO1)

Q.15 What is the role of the rag pickers and their utility for society? (CO2)

Q.16 What are the various factors affecting the composting process? (CO3)

Q.17 What is the Indore method of composting? (CO3)

Q.18 Enlist any four advantages and Disadvantages of the land filling technique of waste disposal.

Q.19 Describe the ways and necessities of controlling leachate from landfill sites. (CO4)

Q.20 What is the method of pyrolysis for waste disposal? (CO4)

Q.21 What are the various varieties of e-waste disposal? (CO4)

Q.22 Name the various biomedical waste management technologies? Describe anyone. (CO5)

### SECTION-D

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

Q.23 List the vehicles used to transport municipal Solid waste with their utility and working capacity. (CO2)

Q.24 Describe the process of incineration. Also, mention the products of incineration and their use. (CO4)

Q.25 How should the e-waste be recycled and disposed. (CO5)