

- Q.25 Explain pre-treatment of waste.
- Q.26 Describe trickling filters.
- Q.27 What is the significance of oxidation ditches?
- Q.28 Write short note on grit removal of waste water treatment.
- Q.29 Discuss fat, oil and grease content of waste.
- Q.30 What are lagoons?
- Q.31 Write short note on sulphur in waste water.
- Q.32 What is waste management?
- Q.33 What are activated carbon filters?
- Q.34 Define disinfection of water.
- Q.35 What is BOD?

#### SECTION-D

- Note:** Long answer type questions. Attempt any two questions out of three questions. (2x10=20)
- Q.36 Describe concept of vermicomposting and bio gas generation.
- Q.37 What is waste? Briefly explain all types of waste in different food processing industries.
- Q.38 Describe insecticide, pesticides and fungicides residues in waste characterization.

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#### 6th Sem / Branch : Food Technology Sub.: Waste Management in Food Industry

Time : 3Hrs.

M.M. : 100

#### SECTION-A

**Note:** Multiple choice questions. All questions are compulsory (10x1=10)

- Q.1 The treatment of waste water by the interaction of sunlight bacteria and algae using large shallow ponds are called
- Oxidation ponds
  - Deoxygenation ponds
  - Anaerobic ponds
  - Algal ponds
- Q.2 Secondary treatment systems can be used for biological degradation of \_\_\_\_\_ in municipal waste water
- Carbon dioxide and methane
  - Nitrogen and CO<sub>2</sub>
  - CO and Methane
  - Organic Pollutants
- Q.3 The water released after use by the domestic and industrial sectors is called as
- Waste water
  - Ground water
  - Salty water
  - Pure water

- Q.4 \_\_\_\_\_ method is used for water disinfection.
- a) Chlorination                      b) Flootation  
c) Flocculation                      d) Filtration
- Q.5 \_\_\_\_\_ devices remove minerals which would damage equipment or interface with a process.
- a) Grit                                      b) Screening  
c) Oxidation                              d) Reduction
- Q.6 During waste water treatment large objects like plastic bottles, plastic cans are removed by
- a) Bar screen                              b) Filtration  
c) Aeration                                d) Chlorination
- Q.7 Which of the following waste is not hazardous?
- a) Agriculture residue    b) Chemical effluent  
c) Paint                                      d) Electricity waste
- Q.8 Important waste management technique
- a) Composting                              b) Recycling  
c) Landfills                                d) All of the above
- Q.9 What is the color of vermicompost?
- a) Yellow                                      b) Red  
c) White                                        d) Brown
- Q.10 What is activated sludge?
- a) Distilled bacteria  
b) Fermented bacteria  
c) Sediment bacterial flocs  
d) Fungi

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## SECTION-B

**Note:** Objective type questions. All questions are compulsory. (10x1=10)

- Q.11 Write full form of COD.
- Q.12 Give any two examples of microorganisms present in waste.
- Q.13 Give any one example of earthworm used in vermicomposting.
- Q.14 What is bio gas?
- Q.15 What is coagulation?
- Q.16 What are biological indicators?
- Q.17 What is sedimentation?
- Q.18 TSS stands for \_\_\_\_\_
- Q.19 What is full form of EPA?
- Q.20 Write any two examples of waste generated by food processing industries.

## SECTION-C

**Note:** Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)

- Q.21 Define coagulations.
- Q.22 What are rotating biological contractors?
- Q.23 What are thermophiles?
- Q.24 What is the significance of advanced water treatment?

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