

- Q.30 What is activated sludge process? Give its advantages.
- Q.31 Enlist the functional elements of solid waste management system.
- Q.32 Make a list of common solid waste disposal methods and define composting.
- Q.33 Write short note on Flocculation of waste water treatment.
- Q.34 Write short note on Rotating Biological Contractors of waste water treatment.
- Q.35 What are the points to be considered before selecting disposal techniques?

#### SECTION-D

**Note:** Long answer type questions. Attempt any two questions out of three questions. (2x10=20)

- Q.36 Describe the working of upward flow sand filter with the help of diagram.
- Q.37 Describe the working of trickling filters with the help of diagram.
- Q.38 Describe coagulation and flocculation.

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Roll No. ....

### 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 Most food is lost at consumption stage in the \_\_\_\_\_ group of countries.  
a) Low income                      b) High Income  
c) All type of countries      d) None of the above
- Q.2 pH requirement of waste water is \_\_\_\_\_ to \_\_\_\_\_ for discharge to water courses.  
a) 3.5-5                              b) 5.5-9  
c) 9-11                                d) More than 11
- Q.3 pH range for neutral fluid is \_\_\_\_\_.  
a) 1                                      b) 5  
c) 7                                      d) 10
- Q.4 BOD test procedure requires \_\_\_\_\_ days to complete sample incubation period.  
a) One day                              b) Two day  
c) Five day                              d) Seven day
- Q.5 Full form of TOD is \_\_\_\_\_.  
a) Total oxygen demand  
b) Total of demand

- c) Time of day  
d) Transit oriented Development
- Q.6 % age of BOD removed by primary treatment of waste water is \_\_\_\_\_.  
a) 25-50                      b) 50-75  
c) 75-90                      d) 90-100
- Q.7 Chemical used in coagulation is \_\_\_\_\_.  
a) Alum                      b) Protein  
c) Charcoal                      d) Metals
- Q.8 Activated carbon is activated by chemical activation at a temperature \_\_\_\_\_ degree celsius.  
a) 800-1000                      b) 200-500  
c) 500-800                      d) More than 1000
- Q.9 Depth of the charcoal layer in upward flow sand filter is \_\_\_\_\_ to \_\_\_\_\_ cm.  
a) 20-25                      b) 50-60  
c) 60-80                      d) 100
- Q.10 Depth of the sand and gravel layer in rapid sand filter is \_\_\_\_\_ to \_\_\_\_\_ m.  
a) 1.5-2                      b) 2.-3  
c) 3-5                      d) 5-6

### SECTION-B

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

- Q.11 Name the types of food waste.  
Q.12 Full form of TSS is \_\_\_\_\_.

- Q.13 Total soluble solids increases the \_\_\_\_\_ of the receiving water.  
Q.14 pH of food process waste water ranges from \_\_\_\_\_ to \_\_\_\_\_.  
Q.15 Give the importance of food waste management on environmental base.  
Q.16 Define recycling.  
Q.17 Which gas was leaked in Bhopal gas tragedy?  
Q.18 Define comminution.  
Q.19 Define Compositing in food waste management.  
Q.20 Full form of STP is \_\_\_\_\_.

### SECTION-C

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

- Q.21 Define food waste and enlist its characteristics.  
Q.22 Make a list of various food industries producing waste and define any one.  
Q.23 Define liquid and solid food waste.  
Q.24 Write short note on reduction of food waste.  
Q.25 Make a list of points to be considered before selecting one particular Waste disposal technique.  
Q.26 Give the basic purposes of Waste treatment.  
Q.27 Write short note on coarse screening.  
Q.28 Make a list of Primary treatment of waste water and define any one.  
Q.29 Write short note on sedimentation.