

- Q.23 Write a brief note on activated sludge process.
 Q.24 How we can reduce wastage in food industries.
 Q.25 What are the types of food processing waste?
 Q.26 Write short note on dissolved oxygen of waste water.
 Q.27 Define the terms Coagulation and Flocculation of waste water treatment.
 Q.28 Give the differences between COD and BOD.
 Q.29 Write short note on TOD of waste water.
 Q.30 What is the necessity of advance water treatment?
 Q.31 Write short note on Oxidation Ditches of waste water treatment.
 Q.32 What do you understand by sedimentation process?
 Q.33 What are the points to be considered before selecting disposal techniques?
 Q.34 Discuss the concept of vermin-composting.
 Q.35 Classify the liquid waste with the help of examples.

SECTION-D

- Note:** Long answer type questions. Attempt any two questions out of three questions. $(2 \times 10 = 20)$
 Q.36 Describe in detail the different methods of secondary waste water treatment of food industries with the help of diagrams.
 Q.37 Define food waste. Discuss food waste at various stages of food chain.
 Q.38 Describe the main characteristics of waste of food industry.

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6th Sem / Food Technology

Subject:- Waste Management in Food Industry

Time : 3Hrs. M.M. : 100

SECTION-A

Note: Multiple choice questions. All questions are compulsory $(10 \times 1 = 10)$

- Q.1 How does organic material in the buried solid waste decompose?
 a) A By the action of oxidation
 b) By the action of microorganisms
 c) By the flow of water
 d) By the soil particles
 Q.2 What is required to keep the activated sludge suspended?
 a) Carbon-dioxide b) Nitrogen
 c) Oxygen d) Ammonia
 Q.3 Why is recycled paper banned for use in food containers?
 a) Because it creates contamination
 b) Because it creates a lot of spaces
 c) Because paper can be used only one time
 d) Because paper is very thick
 Q.4 The WHO has classified bio-medical waste into categories.
 a) 4 b) 8
 c) 1 d) 7

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- Q.5 Why are plastics difficult to recycle?
- a) Because of different types of polymer resins
 - b) Because of the different sizes of plastic
 - c) Because it is a very hard material
 - d) Because it is very adhesive in its nature
- Q.6 Ten degrees of hardness is equivalent to _____ ppm.
- a) 2
 - b) 1
 - c) 10
 - d) 100
- Q.7 Which of the following characteristics is not important to hazardous waste?
- a) Color
 - b) Quantity
 - c) Concentration
 - d) Physical or chemical properties
- Q.8 Which of the following processes is not used for waste treatment?
- a) Aerobic Composting
 - b) Anaerobic fermentation
 - c) Nuclear imaging
 - d) Vermicomposting
- Q.9 Coconut shell-based activated carbon normally is specified for a pH of _____
- a) 1-2
 - b) 3-5
 - c) 5-7
 - d) 9-11
- Q.10 Which of the following is the most important product of anaerobic digestion?
- a) Biogas
 - b) Acetic acid
 - c) Amino acid
 - d) Calcium Genetically Engineered Foods

SECTION-B

- Note:** Objective type questions. All questions are compulsory. (10x1=10)
- Q.11 Give full form of ETP.
- Q.12 The _____ present in the organic waste decompose the waste and produce the mixture of gases known as biogas. (Methanobacteria/E.Coli)
- Q.13 Environment protection act was passed in the year of _____.
- Q.14 Name of any two tertiary treatment process for effluent treatment.
- Q.15 An activated carbon filters are not used to remove hardness. (True/False)
- Q.16 Give full form of RBC.
- Q.17 Chemical used in flocculation is _____.
- Q.18 _____ is the process of separating small particles and sediments in water because of gravity.(Sedimentation/Flocculation)
- Q.19 The overall purpose of sanitation is to maintain the green environment alone. (True/False)
- Q.20 pH range for neutral is _____.

SECTION-C

- Note:** Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)
- Q.21 Give the importance of food waste management on global base.
- Q.22 Briefly explain the concept recycling and reuse in food waste management.