

- Q.27 What is Sand, Coal and Activated Carbon filters? Why they are used?

Q.28 Write short note on microbiology of waste.

Q.29 Write a short note on Sedimentation?

Q.30 Explain biological Oxidation process for waste treatments?

Q.31 Explain the concept of vermi-Composting with neat and clean diagram?

Q.32 What is the effect of temperature on waste?

Q.33 Write a note on recycling and reuse?

Q.34 Briefly explain different types of waste and magnitude of waste generated by food processing industries.

Q.35 What are the different forms of phosphorus and sulphur in waste waters?

SECTION-D

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

- Q.36 Describe in detail the different methods of preliminary waste water treatment of food industries.

Q.37 Describe the working of trickling filters with the help of diagram?

Q.38 Write a note on By-products utilization from various food industries.

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6th Sem / Food Tech.
Subject:-Waste Management in Food Industry

Time : 3Hrs. M.M. : 100

SECTION-A

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

- Q.1 How is chemical Oxygen Demand (COD) calculated?

 - a) Waste water is oxidized chemically using strontium in acid solutions
 - b) Waste water is oxidized chemically using bromine in acid solutions
 - c) Waste water is oxidized chemically using dichromate in acid solutions
 - d) Waste water is oxidized chemically using sodium in acid solutions

Q.2 Which of the below is not an idea behind solid waste management?

 - a) Control of waste generation
 - b) Storage and collection
 - c) Disposal
 - d) Stop waste generation

Q.3 _____ is determined by measuring the dissolved oxygen used by microorganisms during the

biochemical oxidation of organic matter in 5 days at 20°C.

- a) BOD5
- b) COD
- c) TOC
- d) ThOD

Q.4 Detention period adopted for oxidation pond is

- a) 24-36 hrs
- b) 2-4 days
- c) 1-2 week
- d) 2-6 week

Q.5 Which gas produced in open dumps from the decomposition of biodegradable waste?

- a) Ethane
- b) Methane
- c) Propene
- d) Ethene

Q.6 Activated Sludge Process is a example of

- a) Aerobic
- b) Anaerobic
- c) A & B
- d) None of above

Q.7 What is biogas composed of?

- a) O₂ and CO₂
- b) CO₂ and NO₂
- c) CH₄ and O₂
- d) CH₄ and CO₂

Q.8 How many types of landfills are there?

- a) 3
- b) 2
- c) 5
- d) 4

Q.9 Which of the following is not removed by activated carbon?

- a) Odor
- b) TSS
- c) Microbes
- d) Micro-pollutants

Q.10 Which of the following is the most commonly used coagulant?

- a) Ferric sulphate
- b) Coal
- c) Alum
- d) Limestone

SECTION-B

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

Q.11 Name two by products of fruit and vegetable processing industry.

Q.12 Write various types of waste.

Q.13 Define recycling.

Q.14 Full form of BOD.

Q.15 TSS stands for _____.

Q.16 Define bio-gas?

Q.17 Give any two examples of micro-organism present in waste.

Q.18 Sedimentation separates the particles on the basis of _____.

Q.19 What is full form of EPA?

Q.20 Define effluent?

SECTION-C

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

Q.21 Write a short note on EPA?

Q.22 Explain activated sludge process?

Q.23 Explain maintenance of effluent treatment?

Q.24 Describe the process of flocculation and floatation process in pre-treatment of waste?

Q.25 Difference between pesticides and fungicides residues?

Q.26 Write short note on microbiology of waste.