

- Q.23 What are mesophiles?
- Q.24 Explain various types of waste.
- Q.25 What are oxidation ditches?
- Q.26 What is sedimentation?
- Q.27 What are lagoons?
- Q.28 Explain activated sludge processes.
- Q.29 What are By-products and waste utilization?
- Q.30 What is flocculation?
- Q.31 Explain pre treatment of waste.
- Q.32 Differentiate between BOD and COD.
- Q.33 Discuss waste generation in food processing industry.
- Q.34 What are the benefits of vermicomposting?
- Q.35 Define methanogens with examples.

Section-D

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

- Q.36 Explain tertiary treatment of waste water.
- Q.37 Explain the environment protection act and specifications for effluent of food industry.
- Q.38 Write characterization of waste on the basis of fat, oil, grease, phosphorous and sulphur content.

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6th Sem/ Trade : Food Technology Subject : Waste Management in Food Industry

Time : 3 Hrs.

M.M. : 100

SECTION-A

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

- Q.1 Which of the following biological method should not be used for BOD load reduction?
- Oxidation
 - Activated sludge system
 - Anaerobic biological method
 - Chemical Precipitation
- Q.2 Which of the following is not generated in waste treatment process
- Sludge
 - Ash
 - Organic solvents
 - Noise
- Q.3 Effective Preliminary treatment is used to remove the _____.
- Grit and rag
 - Carbon dioxide
 - Nutrient
 - Oxygen
- Q.4 Which of the following technique is environment friendly and cost effective?

- a) Biological
 - b) Chemical
 - c) Physical
 - d) Combination of physical & Chemical
- Q.5 Which of the following methods cannot be used for treatment of waste water?
- a) Incineration b) Conservation
 - c) Metabolism d) Composting
- Q.6 Which of the following physical methods cannot be used for treatment of waste water?
- a) Sedimentation b) Floatation
 - c) Filtration d) Chlorination
- Q.7 The solid waste from hospital is classified as
- a) Hazardous b) Non-Hazardous
 - c) Compostable d) Combustible
- Q.8 The rule of three “R” s is to get rid of waste does not include:
- a) Reduce b) Reuse
 - c) Regeneration d) Recycle
- Q.9 Vermicompost is used as a bio fertilizer because it is rich in
- a) Calcium b) Nitrogen
 - c) Phosphorus d) all of the above

- Q.10 What is the full form of BOD?
- a) Biochemical Oxygen Demand
 - b) Bio Oxygen Demand
 - c) Biological Disease
 - d) Biological Oxygen Deficiency

Section B

Note: Objective types Questions. All Questions are compulsory. (10x1=10)

- Q.11 Write full form of COD.
- Q.12 What is the neutral PH range?
- Q.13 What is waste?
- Q.14 NPK stands for ____.
- Q.15 What is the color of vermicompost?
- Q.16 Which chemical is used in flocculation?
- Q.17 Earthworms are used in vermicomposting. (True/False)
- Q.18 What is bio gas?
- Q.19 What is effluent?
- Q.20 Write example of heavy metal.

Section-C

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

- Q.21 What are trickling filters.
- Q.22 Discuss microbiology of waste.