

- 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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Roll No.....

**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.