

MAHARASHTRA ANIMAL AND FISHERY SCIENCES UNIVERSITY, NAGPUR
SEMESTER END THEORY EXAMINATION, B.Tech. (D.T.)

Semester	: VIII (V Dean)	Academic Year	: 2023-2024
Course No.	: DT- 812	Course Title	: Waste Disposal and Pollution Abatement
Credits	: (1+1=2)	Total Marks	: 50
Day & Date	: Wednesday, 24/07/2024,	Time	: 02 hrs

- Note :** 1) All questions from **Section 'A'** are compulsory.
2) Solve **Any Three** questions from **Section 'B'**.
3) Draw neat and well labeled diagram wherever necessary.

SECTION –‘A’

- Q. 1 A) Choose the most appropriate answer from the options given below. (05)
- i) The noise pollution in a dairy plant is in
 - a) Quality control
 - b) Ghee section
 - c) Aseptic packaging
 - d) Powder section
 - ii) The percentage of primary pollutants in the global air pollution is %.
 - a) 5
 - b) 50
 - c) 60
 - d) 90
 - iii) The example of solid waste in boiler section
 - a) Ash
 - b) Oil
 - c) Wood
 - d) Coal
 - iv) The waste that can be reduced or eliminated through maintenance is
 - a) Avoidable waste
 - b) Process waste
 - c) Unavoidable waste
 - d) Recyclable waste
 - v) The atmospheric constituents like CO₂, CFC's trap heat in the form of infrared radiation Near the earth's surface is known as
 - a) Air pollution
 - b) Acid rain
 - c) Greenhouse effect
 - d) Water pollution
- B) Define the following. (05)
- i) Solid waste
 - ii) Oily waste
 - iii) Pollutants
 - iv) Surface water
 - v) Biological oxygen demand
- Q. 2 A) Give the full form of the following. (05)
- i) CIP
 - ii) MMPO
 - iii) BIS
 - iv) TQM
 - v) SOP

(P.T.O.)

- B) Give two examples for the following. (05)
- i) Solid waste
 - ii) Degradable Pollutants
 - iii) Persistent Pollutants
 - iv) Treatment of a waste water system
 - v) Dairy by-products

SECTION –‘B’

- Q. 3 A) Describe the importance of food hygiene in dairy plant in related to water quality and sanitation. (05)
- B) Describe in detail aerobic treatment for dairy effluent. (05)
- Q. 4 A) How will you control the waste discharged from liquid milk processing section? (05)
- B) Discuss in brief the factors responsible for milk losses? (05)
- Q. 5 A) Differentiate between COD and BOD. (03)
- B) Discuss the waste water discharge from Ice cream manufacturing. (03)
- C) What are the sources of losses in dairy unit and how can they recovered? (04)
- Q. 6 Write short notes on.
- A) Different sources of environmental pollution in a dairy unit. (03)
- B) Characteristics and sources of dairy waste water. (03)
- C) Anaerobic effluent treatment method. (04)
- Q. 7 Explain the importance of ETP in a dairy unit. Describe briefly the physical treatment of effluent in a dairy unit. (10)
