



Shree H.N.Shukla College of Science Rajkot
B.Sc. (Sem. IV) (CBCS)

[MIC-401]: APPLIED AND ENVIRONMENTAL MICROBIOLOGY
Microbiology Unit Test Paper-2

[Time: 2:30 Hours]

[Total Marks: 50]

Date: 10 / 05 / 2021

- Instructions:**
1. all questions are compulsory.
 2. The right side figure indicates total marks of the question.
 3. Draw the figure wherever necessary.
 4. Write answers of all the questions in main answer sheets.

Question-1

[A] Objective type questions (5 question)

[05]

1. Enalst composition of milk.
2. What is RRT?
3. How much contribution of cow's milk in total milk production world wide?
4. Give a Common name of yogurt in india.
5. What is time and temperature of HTST?

[B] Answer in brief. Write any[two out of three]

[04]

1. Define pasteurization and homogenization.
2. What is SPC?
3. Which type of changes observed in spoilage of milk?

[C] Answer in detail. Write any [two out of three]

[06]

1. Enalst different type of milk and define any two types.
2. Explain proteolysis.
3. Write a note on MBRT.

[D] Answer in detail. Write any [two out of three]

[10]

1. Which are different types of microorganisms in milk?
2. Write a note on preservatives used for milk preservation,
3. Write a note on cheese.

Question-2

[A] Objective type questions (5 question)

[05]

1. Give full form of MUG,
2. What is MPN method used for?
3. What is the Role of nuisance bacteria in water?
4. Give a formula of COD.
5. Define composting.

[B] Answer in brief. Write any[two out of three]

[04]

1. Write a note on physicochemical properties of waste water.
2. Short note on oxidation pond.
3. Describe Indian standard of potable water.

[C] Answer in detail. Write any [two out of three]

[06]

1. Write a short note on composting.
2. Write a note on BOD.
3. Write a note on single dwelling unit.

[D] Answer in detail. Write any [two out of three]

[10]

1. Write a note on water purification,
2. Explain trickling filters.
3. Write a note on waste water treatment.