

B.Sc. Semester - 4 (CBCS) Examination
March/April-2024 [NEW COURSE]
Microbiology-Mi401 (Core)

Time: 2:30 Hours**Marks: 70****Instructions:**

1. All questions are compulsory.
2. Figures to the right indicate marks.

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- Que.1(A) Objective type questions. (04)
1. Define: Rhizosphere
 2. Give examples of any two fungal plant pathogens.
 3. What is a sedimentary biogeochemical cycle?
 4. Give examples of any two microorganisms involved in Nitrogen cycle.
- Que.1(B) Answer in Brief. (any one out of two) (03)
1. Advantages of Bio pesticides
 2. Difference Mutualism and Commensalism
- Que.1(C) Write a Note on. (any one out of two) (07)
1. Bio fertilizer
 2. Carbon Cycle
- Que.2(A) Objective type questions. (04)
1. Which organism produces toxins in food?
 2. Foods with high water activity are more susceptible to spoilage. (True/False)
 3. Define: Functional Foods
 4. What is AGMark?
- Que.2(B) Answer in Brief. (any one out of two) (03)
1. Sauerkraut Fermentation
 2. Explain about brief role of *Salmonella* Spp. In food poisoning.
- Que.2(C) Write a Note on. (any one out of two) (07)
1. Principles of food preservations
 2. Single cell proteins
- Que.3(A) Objective type questions. (04)
1. Give full form of MBRT.
 2. Define: Starter Culture
 3. Give examples of LAB (Lactic Acid Bacteria).
 4. The protein present in milk is _____.
- Que.3(B) Answer in Brief. (any one out of two) (03)
1. How yogurt is produced?
 2. Give brief note on pathogenic types of Microorganisms present in milk.

- Que.3(C) Write a Note on. (any one out of two) (07)
1. Pasteurization of milk
 2. Methods for preservation of milk
- Que.4(A) Objective type questions. (04)
1. Chlorine is used as a disinfectant in water purification system (True/False).
 2. Name two techniques for sampling of water.
 3. Define: Coliforms.
 4. What is the full form of B.O.D and C.O.D?
- Que.4(B) Answer in Brief. (any one out of two) (03)
1. Anaerobic sludge digestion
 2. Microbial Characteristics of waste water
- Que.4(C) Write a Note on. (any one out of two) (07)
1. Primary waste water treatment
 2. Use of Sedimentation technique for Water purification
- Que.5(A) Objective type questions. (04)
1. What is the objective of Quality Assurance?
 2. Why total quality management (TQM) is important?
 3. Give full forms: ISO and WHO.
 4. The process by which new drug is created is through R & D. (True/False).
- Que.5(B) Answer in Brief. (any one out of two) (03)
1. Brief detail of pharmacopoeia
 2. Ideal Criteria of GMP
- Que.5(C) Write a Note on. (any one out of two) (07)
1. Methods of Sterility Testing
 2. Principles of Good Laboratory Practices (GLP)
