

B.Sc. (CBCS Pattern) Semester-II
014B - Major Microbiology Paper-II - Applied Microbiology

P. Pages : 2

Time : Three Hours



GUG/S/25/11589

Max. Marks : 50

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1. Describe in detail about solid and liquid impingement techniques of microbial analysis of air. **10**

OR

- a) What is fumigation? Describe fumigation by Ethylene Oxide. **2½**
- b) Write about different layers of atmosphere. **2½**
- c) Write about laminar air flow system. **2½**
- d) Write about sterilization of air by UV radiation. **2½**

2. Define chlorination. Describe different method of chlorination. **10**

OR

- a) Write a short notes on Indol test. **2½**
- b) Explain MPN test. **2½**
- c) Write about MTDT test **2½**
- d) Indicators of excretal pollution. **2½**

3. Describe in detail about secondary sewage treatment methods. **10**

OR

- a) Write about biological oxygen demand (BOD) **2½**
- b) Write about septic tank **2½**
- c) Draw general flow sheet of Waste Water Treatment. **2½**
- d) Write about different types of sewage. **2½**

4. What is cheese? Describe the preparation of cottage cheese. **10**

OR

- a) Enlist causative organisms of milk borne diseases **2½**
- b) Write about phosphatase test. **2½**
- c) Write a short note MBRT test **2½**
- d) Describe the source contamination of milk. **2½**

5. Answer **any ten** of the following (1 mark each)

10

- a) What is aerosol?
- b) What is fumigation?
- c) What is droplet nuclei?
- d) What is coliform? Give example.
- e) What is mean by double strength broth?
- f) Define chlorination?
- g) Define sewage.
- h) What is preliminary treatment of sewage?
- i) What is ThOD?
- j) What is pasteurization?
- k) What is MBRT test?
- l) Write any one name of microorganism involved in Yoghurt preparation.
