

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

P. Pages : 2

Time : Three Hours



**GUG/S/23/11589**

Max. Marks : 50

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1. Explain the room sterilization technique considering-radiation, laminar air flow. **10**

**OR**

a) Write note on sources of microorganism in air. **2½**

b) Write a short note on the Andersons air sampler. **2½**

c) Enlist various air borne diseases with its causative organisms. **2½**

d) What are droplet and Aerosol, Droplet nuclei and Droplet infection. **2½**

2. Explain IMViC test in detail. **10**

**OR**

a) What are the indicators of excretal pollution? **2½**

b) Give the methods of collection and handling of water sample for analysis. **2½**

c) Write a short note on Break point Chlorination. **2½**

d) What is false positive presumptive test? How it is eliminated. **2½**

3. Explain Mechanism and working of trickling filter. **10**

**OR**

a) Give the general flow sheet of waste water treatment. **2½**

b) Write short note on COD. **2½**

c) What are the preliminary treatments of sewage water? **2½**

d) Draw the diagram and explain about Imhoff Tank. **2½**

4. Explain the production of cheese in detail. **10**

**OR**

a) Give the process of production of Yoghurt production. **2½**

b) Enlist the milk borne diseases with causative organisms. **2½**

c) Give the method and principle behind MBRT. **2½**

d) How the bacteriological examination of milk done by SPC. **2½**

**5. Answer any ten.**

- a) Which gas is present abundantly in atmosphere? **1**
- b) What is HEPA filter. **1**
- c) What is fumigation? **1**
- d) Which organism indicates the fecal contamination of water? **1**
- e) How MPN is calculated. **1**
- f) Define residual chlorine. **1**
- g) Define BOD? **1**
- h) Define RBC **1**
- i) What Zoogleal Layer. **1**
- j) What is ropy milk? **1**
- k) Which test is used for pasteurization of milk? **1**
- l) Define milk? **1**

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