

Bachelor of Science (B.Sc.) (CBCS Pattern) Second Semester CBCS
Microbiology Paper – II (Applied Microbiology)

P. Pages : 2

Time : Three Hours



GUG/W/18/11589

Max. Marks : 50

1. Discuss various methods of control of microorganisms in air. **10**

OR

a) Discuss different sources of microorganisms present in air. **2½**

b) Write about Anderson air sampler. **2½**

c) Explain the mechanism of laminar air flow. **2½**

d) Explain droplet infection with example. **2½**

2. Give detail account on IMViC test. **10**

OR

a) What are the different types of water? **2½**

b) Give brief account on methods of collection and handling of water sample. **2½**

c) Write a note on Eijkman test. **2½**

d) Discuss Break point Chlorination. **2½**

3. Discuss any two secondary sewage treatment methods. **10**

OR

a) Discuss about BOD and COD. **2½**

b) Write a note on microbiology of sewage. **2½**

c) Draw a typical diagram of Imhoff tank. **2½**

d) Give the different uses of reclaimed water. **2½**

4. Discuss the various sources of contamination of milk. **10**

OR

a) What are the undesirable changes in milk? **2½**

b) Explain the mechanism of MBRT. **2½**

c) Write a note on Yoghurt Production. 2½

d) Give the classification of Cheese. 2½

5. Solve **any ten** of the following.

a) Which gas is present in abundant quantity in air? 1

b) What is HEPA filter? 1

c) Define aerosol. 1

d) Which microorganisms are known as indicators of excretal pollution? 1

e) Which is the selective media used for coliform growth? 1

f) Enlist any two waterborne diseases with their causative agents. 1

g) Define Sewage. 1

h) What is Water reclamation? 1

i) What is lagoon? 1

j) Give the name of protein present in milk. 1

k) Which chemical agent is used in phosphatase test? 1

l) Enlist any two milk products. 1
