B.Sc. (C.B.C.S. Pattern) Sem-II

Microbiology Paper-II (Applied Microbiology)

P. Pages : 2 **GUG/W/19/11589**

Time : Three Hours * 3 3 8 2 * Max. Marks : 50

Notes : 1. All questions are compulsory and carries equal marks.

1. Explain Lemons sampler and Anderson sampler for the enumeration of micro organism from air. **10**

OR

a) Write a note on Laminar air flow. **2½**

b) Write the various source of micro-organisms in air. **2½**

c) Write a note on droplet nuclei and droplet infection. **2½**

d) Enlist the air borne diseases. **2½**

2. Explain the IMVIC test for the identification of Faecal and Non Faecal coliform. **10**

OR

a) Give the mechanism of chlorine action on micro organism. **2½**

b) Differentiate between faecal and non faecal coliform. **2½**

c) Explain the collection and handling of water sample for analysis of microorganism. **2½**

d) Write a note on confirm test. **2½**

3. Explain the construction, working mechanism and application of trickling filter. **10**

OR

a) Write a note on composition of sewage. **2½**

b) Write a note on oxidation pond. **2½**

c) Explain the water reclamation and its significance. **2½**

d) Explain the construction of Imhoff tank. **2½**

4. Explain in detail MBRT and phosphatase test. **10**

OR

a) Write a note on yogurt production. **2½**

b) Enlist the milk borne diseases. **2½**

c) Write a note on composition of milk. **2½**

d) Enlist the sources of contamination of milk. **2½**

5. Answer **any ten.**

a) Which gas present abundantly in atmosphere. **1**

b) Define aerosol. **1**

c) What is fumigator? Give the example of it. **1**

d) What is potability of water. **1**

e) How MPN is calculated. **1**

f) Give the source of residual chlorine. **1**

g) Define sewage? **1**

h) Define BOD? **1**

i) What is biological film? **1**

j) Define Milk. **1**

k) Enlist the types of Cheese **1**

l) Enlist any two milk product **1**

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