

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

P. Pages : 2

Time : Three Hours



GUG/W/24/11589

Max. Marks : 50

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1. Discuss in detail about solid impingement technique for enumeration of micro-organisms in air. **10**

OR

- a) Write a note on Lemon Sampler. **2½**
- b) Describe the sources of micro-organisms in air. **2½**
- c) Write a note on Fumigation. **2½**
- d) Give the construction of Laminar air flow. **2½**
2. Discuss in details about microbial analysis of water through MTDT. **10**

OR

- a) Describe in brief about indicators of excretal pollution. **2½**
- b) Write a note on collection of water sample. **2½**
- c) Discuss the principle of Indole test. **2½**
- d) Write a note on Eijkmann test. **2½**
3. Discuss Trickling filter method as a secondary sewage treatment in detail. **10**

OR

- a) Write a note on types of sewage. **2½**
- b) Discuss about COD and BOD in brief. **2½**
- c) Write a note on oxidation pond. **2½**
- d) Write short note on RBC. **2½**
4. What is pasteurization? Explain about pasteurization of milk by phosphatase test. **10**

OR

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| a) Discuss in brief about undesirable changes in milk. | 2½ |
| b) Describe various sources of contamination in milk. | 2½ |
| c) Write a note on MBRT. | 2½ |
| d) Discuss in brief about bacteriological examination of milk by SPC. | 2½ |

5. Solve any ten.

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| a) What is Aerosol? | 1 |
| b) Write any two airborne diseases. | 1 |
| c) Which filter is used in laminar air flow? | 1 |
| d) Define coliforms. | 1 |
| e) What is MPN? How it is calculated. | 1 |
| f) Write any two water borne diseases. | 1 |
| g) What is Thod? | 1 |
| h) Define Sewage. | 1 |
| i) What is Activated Sludge? | 1 |
| j) Write any two milk borne diseases. | 1 |
| k) What is DMC? | 1 |
| l) What is MBRT? | 1 |
