

B.Sc. (NEP) Semester-II
BSCMI601 - (Major) Microbiology : Applied Microbiology

P. Pages : 2

Time : Two Hours



GUG/S/25/16770

Max. Marks : 40

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

1. Discuss in detail chemical method for room sterilization technique. 8

OR

a) Write a brief note on sources of microorganisms in air. 2

b) Describe the function of lemon's sampler. 2

c) Write a short note on droplet infection. 2

d) Write a note on causative microorganisms of air diseases. 2

2. Describe in detail IMVIC test for identification of coliforms. 8

OR

a) Give brief account on indicators of excretory pollution. 2

b) Write a brief note on MPN test. 2

c) Describe in brief mechanism of chlorination. 2

d) Write a brief note on water borne diseases. 2

3. Discuss the process of oxidation of pond in detail. 8

OR

a) Describe microbiology of sewage. 2

b) Write a short note on septic tank. 2

c) Give a brief account on Imhoff tank. 2

d) Write a short note on BOD. 2

4. Explain the methods used for bacteriological analysis of milk in detail. 8

OR

a) Write a short note on composition of milk. 2

- b) Write a brief note on undesirable changes in milk. 2
- c) Write a note on milk borne diseases. 2
- d) Describe the process of cheese in brief. 2

5. Answer any eight.

- a) Write composition of air. 1
- b) Define aerosol. 1
- c) Write full form of HEPA. 1
- d) Define Coliforms. 1
- e) Write full form of MTDT. 1
- f) Give one example of non-fecal coliform. 1
- g) Define COD. 1
- h) Write down composition of sewage. 1
- i) Define DO. 1
- j) Write sources of contamination of milk. 1
- k) Write don full form of MBRT. 1
- l) Give one example of milk borne disease. 1
