

A

(20623)

B.Sc. (Bio-Tech.)- I Year

NS-3458

B.Sc. (Biotechnology) Examination,

June-2023

MICROBIOLOGY

(B-104)

(B.Sc. Biotech.)

Time : Three Hours

[Maximum Marks : 50

Note : Attempt any five questions. Each question carries equal marks.

1. Who was Antonie Van Leeuwenhoek ? Discuss his important contributions in the development of Microbiology. 10
2. What is Single cell protein ? Write down the process of Single cell protein production from yeast. 10

NS-3458

[P. T. O.]

(2)

Printed Page 3

Roll N.

3. What are antibiotics ? Describe commercial production of penicillin antibiotic. 10

4. Write short note on the following : 2×5=10

(a) Strain growth curve

(b) Serotypes

5. What do you mean by infectious diseases ? Describe the defense mechanism against Pathogenic microorganism in humans. 10

6. What is nitrogen fixation ? Discuss its importance in Forestry. 10

7. Write down the importance of Industrial microbes in the production of dairy products. 10

8. Discuss two important viral diseases of plant their symptoms and control measures. 10

9. Write short note on the following : 2×5=10

(a) Microbial assay for Vitamin 12

(b) Antibiosis

NS-3458

(3)

- 10.** What are phosphate Solubilizing bacteria ? Discuss mechanism of phosphate solubilizing bacteria in detail with examples.

10