

(Pages : 2)

T – 6401

Reg. No. :

Name :

Second Semester M.Sc. Degree Examination, September 2024

Biotechnology

BT 201 : BASIC MICROBIOLOGY

(2020 Admission Onwards)

Time : 3 Hours

Max. Marks : 75

I. Answer any **two** of the following:

1. List the major properties of Bacteroides. How do they benefit and harm their host?
2. What are pure cultures, and why are they important? How are spread plate, streak plates and pour plates prepared?
3. Explain the methods for measurement of microbial growth.

(2 × 15 = 30 Marks)

II. Answer any **nine** of the following:

4. What are the factors affecting soil microflora?
5. What is a bacterial wilt? Describe any two bacterial wilt diseases.
6. What is the importance of plant growth-promoting bacteria?
7. Explain commensalism.
8. Explain:
 - (a) Predation
 - (b) Parasitism.

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9. What is a lichen?
10. Explain biofilm formation and its significance.
11. What is syntrophism? Explain with an example.
12. What are prions?
13. Distinguish between bacteria and mycoplasmas
14. Write a note on the structure of bacterial cell wall.
15. What is quorum sensing?

(9 × 5 = 45 Marks)

