

24U285

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Name : .....

Reg. No : .....

**SECOND SEMESTER UG DEGREE EXAMINATION, APRIL 2025**

(FYUGP)

**CC24UFTL2CJ102 - FOOD MICROBIOLOGY - I**

(Food Technology - Major Course)

(2024 Admission - Regular)

Time: 2.0 Hours

Maximum: 70 Marks

Credit: 4

**Part A** (Short answer questions)

Answer *all* questions. Each question carries 3 marks.

1. Describe about the lenses present in light microscope. [Level:2] [CO1]
2. Mention the effectiveness of vaccination programs in India. [Level:2] [CO1]
3. Name the scientists work under theory of spontaneous generation. [Level:1] [CO1]
4. Mention about functions of pili in bacteria. [Level:4] [CO2]
5. Discuss characteristics of yeast. [Level:3] [CO2]
6. Explain briefly about transformation in bacteria. [Level:2] [CO2]
7. Define virology. [Level:2] [CO3]
8. Define pour plate method. [Level:3] [CO3]
9. Discuss about microbial growth in food. [Level:2] [CO4]
10. Give short note on psychrophiles. [Level:2] [CO4]

**(Ceiling: 24 Marks)**

**Part B** (Paragraph questions/Problem)

Answer *all* questions. Each question carries 6 marks.

11. Classify electron microscopes and elaborate transmission electron microscope. [Level:2] [CO1]
12. Discuss about classification of microscopes and elaborate dark field microscope. [Level:2] [CO1]
13. Explain the difference between prokaryotes and eukaryotes. [Level:4] [CO2]
14. Discuss about structure and classifications of fungi. [Level:2] [CO2]
15. Describe the process of viral replication, detailing the steps from attachment to the release of new virions. [Level:2] [CO3]
16. Explain about enumeration of microorganisms qualitative and quantitative. [Level:2] [CO3]

17. Define staining, types and purpose of staining.

[Level:2] [CO4]

18. Discuss about the factors affecting growth of microorganisms.

[Level:2] [CO4]

**(Ceiling: 36 Marks)**

**Part C (Essay questions)**

Answer any ***one*** question. The question carries 10 marks.

19. Draw a neat diagram and explain replication of virus in a host.

[Level:3] [CO3]

20. Discuss about the methods of isolation and cultivation of microorganisms.

[Level:2] [CO4]

**(1 × 10 = 10 Marks)**

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