

**B.Sc. DEGREE (C.B.C.S.S.) EXAMINATION, MAY 2017**

**Second Semester**

**Complementary Course – Microbiology**

**FUNDAMENTALS OF MICROBIOLOGY – II**

(For B.Sc. Biotechnology)

[2013 Admission onwards]

Time : Three Hours

Maximum Marks : 60

**Part A (Short Answer Type Questions)**

*Answer all questions.*

*1 mark each.*

1. What is pasteurization?
2. What are vibrios?
3. What is mycology?
4. What is capsid?
5. Name two industrially important microbes.
6. Write significance of Endospores.
7. What are transposons?
8. What is a plasmid?

(8 × 1 = 8)

**Part B (Brief Answer Questions)**

*Answer any six questions.*

*2 marks each.*

9. Write a short note on autoclaving.
10. Write about structure of virus particle.
11. Differentiate deletion and transversion.
12. Write a note on methanogenic bacteria.
13. Give an account of anaerobic bacteria.

**Turn over**

14. Explain asexual reproduction in fungi.
15. Write a note on classification of bacteria based on shape.
16. Write an account of micronutrients.
17. Differentiate Gram positive and Negative bacteria.
18. "Fungi has significant role in food production". Explain.

(6 × 2 = 12)

**Part C (Short Essay Type Questions)**

*Answer any four questions.*

*4 marks each.*

19. Write an account of culture and virus.
20. Explain Conjugation.
21. Describe major constituents of fungal culture medium.
22. Illustrate structure of Bacteriophage.
23. Give an account on different types of mutagens.
24. Write about classification of fungi.

(4 × 4 = 16)

**Part D (Long Essays)**

*Answer any two questions.*

*12 marks each.*

25. Explain multiplication of bacteriophages.
26. Give an account of bacterial nutrition.
27. Describe importance of fungi in human life.
28. Explain genetic mechanism of drug resistance in bacteria.

(2 × 12 = 24)