

B.Sc. DEGREE (CBCSS) EXAMINATION, MAY 2015

Second Semester

Complementary Course : Microbiology

FUNDAMENTALS OF MICROBIOLOGY – II

(For B.Sc. Biotechnology)

[2013 Admission onwards]

Time : Three Hours

Maximum : 60 Marks

Part A (Short Answer Type Questions)

Answer all questions.

1 mark each.

1. What is a capsid?
2. Name a chemical disinfectant.
3. What are vibrios?
4. Name a gram '-ve bacteria.
5. What are sterigma?
6. What is dikaryotic mycelium?
7. What is a prophage?
8. What is mutation?

(8 × 1 = 8)

Part B (Brief Answer Questions)

Answer any six questions.

2 marks each.

9. Write a note on bacterial spores.
10. Write about microscope morphology of fungi.
11. What are Hfr strains?
12. Write a note on gram positive bacterial cell wall.
13. Give an account of types of mutagens.
14. Differentiate neutrophiles and acidophiles.

Turn over

15. Write about general characters of fungi.
16. Explain Lithotrophs.
17. Write about classification of virus.
18. Explain Fermentation.

(6 × 2 = 12)

Part C (Short Essay Type Questions)

Answer any four questions.

4 marks each.

19. Give an account of extra chromosomal genetic material.
20. Write an account of common bacterial culture media.
21. Write about uses of fungi in industry.
22. Describe Conjugation.
23. Explain cultivation of fungi.
24. What are transposons? Write about its significance.

(4 × 4 = 16)

Part D (Long Essays)

Answer any two questions.

12 marks each.

25. Give an account of importance of fungi in food production and diseases.
26. Explain genetic mechanism of drug resistance in bacteria.
27. Explain structure and multiplication of bacteriophages.
28. Describe Transformation.

(2 × 12 = 24)