

E 2292

(Pages : 2)

Reg. No.....

Name.....

B.Sc. DEGREE (C.B.C.S.S.) EXAMINATION, MAY 2018

Second Semester

Complementary Course—Microbiology

FUNDAMENTALS OF MICROBIOLOGY—II

(For B.Sc. Biotechnology)

[2013—2016 Admissions]

Time : Three Hours

Maximum Marks : 60

Part A (Short Answer Questions)

Answer all questions.

1 mark each.

1. What are obligate parasites ?
2. Write about conidium.
3. What is mycelium ?
4. What is point mutation?
5. Explain 'nucleoid'.
6. What is translocation ?
7. What is lysogenic cycle ?
8. Write a short note on lag phase.

(8 × 1 = 8)

Part B (Brief Answer Questions)

Answer any six questions.

2 marks each.

9. Write an account of fruiting bodies in basidiomycetes.
10. Explain fermentation.
11. Explain plaque assay.
12. Mention importance of glycolysis.
13. What are transposable elements ?
14. Write a note on importance of lactic acid bacteria in food industry.
15. Give an account of sexual reproduction in ascomycetes.
16. Explain lytic cycle.

Turn over

17. Write an account on pathogenic virus.
18. What is viable microbial count ?

(6 × 2 = 12)

Part C (Short Essay Type Questions)

*Answer any four questions.
4 marks each.*

19. Describe structure of a bacteriophage.
20. Write a note on fungal culture and types of media.
21. Explain drug resistance in bacteria.
22. Enlist types of mutagens and their mode of action.
23. Describe 'transformation'.
24. Give an account on importance of fungi in food industry.

(4 × 4 = 16)

Part D (Long Essays)

*Answer any two questions.
12 marks each.*

25. Explain respiration in bacteria.
26. Explain classification and cultivation of virus.
27. Describe transduction and conjugation.
28. Give an account on multiplication of bacteriophages.

(2 × 12 = 24)