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(Pages : 2)

Reg. No.....

Name.....

B.Sc. DEGREE (C.B.C.S.S.) EXAMINATION, NOVEMBER 2017

First Semester

Complementary Course—FUNDAMENTALS OF MICROBIOLOGY

(For B.Sc. Biotechnology)

[2013—2016 Admissions]

Time : Three Hours

Maximum Marks : 60

Part A

Answer all questions.

Each question carries 1 mark.

1. What is Pathogenecity ?
2. What are Cilia ?
3. Define Probiotics.
4. What are Phagosomes ?
5. Explain principle of phase contrast microscope.
6. What are episomes ?
7. Name two harmful bacteria.
8. What are bacterioids ?

(8 × 1 = 8)

Part B

Answer any six of the following.

Each question carries 2 marks.

Write briefly on :

9. Kingdom Monera.
10. Cyanobacteria.
11. Scope of microbiology.
12. Nucleoid.
13. Structure of Flagella.

Turn over.

14. Dark field microscopy.
15. Methods for physical sterilization.
16. Archaeobacteria.
17. Protozoa.
18. Beneficial microbes.

(6 × 2 = 12)

Part C

*Answer any four of the following.
Each question carries 4 marks.*

Write short essay on :

19. Mode of action of antibiotics.
20. Growth curve.
21. Types of bacteria based on position and number of Flagella.
22. Antimicrobial agents.
23. Electron Microscopy.
24. Pure culture.

(4 × 4 = 16)

Part D

*Answer any two of the following.
Each question carries 12 marks.*

Write essay on :

25. Different types of staining of bacteria.
26. Bacterial culture media.
27. Ultrastructure of bacterial cell.
28. Factors affecting growth of bacteria.

(2 × 12 = 24)