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(Pages : 2)

Reg. No. 160021050152

Name. Apama

B.Sc. DEGREE (C.B.C.S.S.) EXAMINATION, NOVEMBER 2016

First Semester

Complementary Course—FUNDAMENTALS OF MICROBIOLOGY

(For B.Sc. Biotechnology)

[2013 Admission onwards]

Time : Three Hours

Maximum Marks : 60

Part A

Answer all questions.

Each question carries 1 mark.

1. What are amphitrichous bacteria ?
2. Name a Gram '+' ve bacteria.
3. What are archae bacteria ?
4. Name an anaerobic bacteria.
5. What are plasmids ?
6. What is a slime layer ?
7. What is phase contrast microscope ?
8. Name two antibiotics.

Meno
Loph
uphalo
Petai

(8 × 1 = 8)

Part B

Answer any six of the following.

Each question carries 2 marks.

Write briefly on :

9. Negative staining.
10. Bacterial cell.
11. Hanging drop method.
12. TEM.
13. Growth curve.
14. Significance of flagella.
15. Antimicrobial agents.

Turn over

16. Koch's postulates.
17. Red algae.
18. Protozoa.

(6 × 2 = 12)

Part C

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

Write short essay on :

19. Types of bacteria based on shape.
20. Factors affecting growth of bacteria.
21. Mode of action of antibiotics.
22. Differential staining.
23. Pure culture.
24. Measurement of bacterial growth.

(4 × 4 = 16)

Part D

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

Write essay on :

25. Different types of microscopes for visualization of microbes.
26. Nutritional requirements of bacteria.
27. Beneficial and harmful microbes.
28. Different methods of sterilization.

(2 × 12 = 24)