



K21G 0007

Reg. No. :

Name :

I Semester B.Sc. Degree (C.B.C.S.S. (O.B.E.) – Regular)
Examination, November 2020
(2020 Admission)

BSC LIFE SCIENCES (ZOOLOGY) AND COMPUTATIONAL BIOLOGY
Complementary Course

1C01 MCB : Basic Microbiology – I

Time : 3 Hours

Max. Marks : 32

PART – A

Short answer. Answer **all** questions.

(5×1=5)

1. Define Chemotherapy.
2. Negative staining.
3. NAM.
4. Define sterilization.
5. Photolithotrophic bacteria.

PART – B

Short essay. Answer **any 4** questions.

(4×2=8)

6. Fluorescent dyes.
7. Capsule staining.
8. Differentiate antiport and symport.
9. Sphaeroplasts.
10. O antigens.

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PART – C

Essay. Answer **any 3** questions.

(3×3=9)

11. Gram negative bacterial cell envelope.
12. Nutritional types of bacteria.
13. Phase contrast microscope.
14. Discuss on the contributions of Louis Pasteur and Robert Koch.
15. Explain briefly Lactophenol cotton blue staining.

PART – D

Long Essay. Answer **any 2** questions.

(2×5=10)

16. Write a detailed note on the physical methods of sterilization.
 17. What are endospores ? Discuss on various stages in endospore formation.
 18. Write on different methods of nutrient uptake in bacteria.
 19. Define resolving power of a microscope. Discuss on various methods in light microscopy.
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