

TB246962M

Reg. No : .....

Name : .....

BACHELOR'S DEGREE (C.B.C.S) EXAMINATION, MARCH 2024

2021 ADMISSIONS REGULAR

SEMESTER VI - CORE COURSE (ZOOLOGY )

ZY6B10B18 - Microbiology and Immunology

Time : 3 Hours

Maximum Marks : 60

**Part A**

**I. Answer any Ten questions. Each question carries 1 mark**

**(10x1=10)**

1. Name the discoverer of the following A) Small pox vaccine B) Penicillin.
2. List any 2 methods for the preservation of microbial Culture.
3. What are antimicrobial agents?
4. Mention any two distinguishing characteristics of gram negative bacteria.
5. Write briefly on Capsule.
6. Define Generation time.
7. Define Harborage transmission.
8. Name any one Pathogenic bacteria and the disease caused by it.
9. Write the cardinal signs of inflammation.
10. Comment on Natural killer cells.
11. Define Hypersensitivity.
12. Define antigen.

**Part B**

**II. Answer any Six questions. Each question carries 5 marks**

**(6x5=30)**

13. Explain the various types of Earthenware candle filters used to remove microbes.
14. Write briefly on the different types of special media used for microbial culture.
15. Explain Bacterial Transduction. Sketch and label.
16. Describe the structure of a typical bacteriophage. Sketch and label.
17. Distinguish between Infection and Disease. Comment on various types of infections.
18. Explain different modes of disease transmission with an example for each.
19. Write a note on inflammation.
20. Explain delayed hypersensitivity.
21. Explain immunodeficiency.



**Part C**

**III. Answer any Two questions. Each question carries 10 marks**

**(2x10=20)**

22. Explain the different methods for the preservation of microbial culture.
23. With the help of a labelled diagram explain Viral replication .
24. Write an essay on secondary lymphoid organs.
25. Define vaccines. Briefly explain different types of vaccines.