

TM242942Y

Reg. No :

Name :

MASTER'S DEGREE (C.S.S) EXAMINATION, MARCH 2024
2023 ADMISSIONS REGULAR
SEMESTER II - CORE COURSE ZOOLOGY
ZO2C08TM20 - Microbiology

Time : 3 Hours

Maximum Weight : 30

Part A

I. Answer any Eight questions. Each question carries 1 weight

(8x1=8)

1. Enumerate the wall – less structures reported in bacteria.
2. Compare lytic and lysogenic cycle in phages with proper illustrations.
3. Mention the nutritional factors influencing bacterial growth.
4. Contrast between enrichment and selective media.
5. Distinguish between endemic and hyper endemic diseases. Cite one example.
6. Comment on Zoonosis.
7. Comment on Lyme disease.
8. Write a short note on aspergillosis.
9. Differentiate the terms pharmacodynamics and pharmacokinetics.
10. Enlist the general characteristics of antimicrobial therapy.

Part B

II. Answer any Six questions. Each question carries 2 weight

(6x2=12)

11. Describe the basic morphology of the Kingdom fungi. Provide a brief account on their importance and nutrition.
12. Compile the principle and procedure of Gram – staining technique.
13. Explicate the types of culture medium used for bacterial cultivation.
14. Discuss the widely used methods for measuring bacterial population.
15. Write an account on emerging infectious disease with special mention to Leptospirosis.
16. Give a detailed account on agents of nosocomial infections.
17. Elaborate on bacterial disease caused by Mycobacterium tuberculosis.
18. What are the characteristics of a successful antimicrobial therapy?

Part C

III. Answer any Two questions. Each question carries 5 weight

(2x5=10)

19. Emphasize on morphology, surface structures and inclusions of bacteria.
20. Discuss in detail the different strategies of locomotion exhibited by microbes with suitable diagrams.
21. Identify the major events in an infectious disease cycle.
22. Discuss the various mechanisms by which a drug induces an allergic response.

