



QP CODE: 21102070



21102070

Reg No :

Name :

B.Sc DEGREE (CBCS) EXAMINATION, AUGUST 2021

Third Semester

B.Sc Zoology Model II Medical Microbiology

VOCATIONAL COURSE - ZM3VOT06 - DIAGNOSTIC MICROBIOLOGY

2017 Admission Onwards

F1190BDE

Time: 3 Hours

Max. Marks : 60

Part A

*Answer any **ten** questions.*

*Each question carries **1** mark.*

1. Warning signage
2. Mention any 2 laboratory safety practises.
3. Name a citrate positive organism.
4. Hydrogen peroxide is used in which test?
5. Relevance of optochin and bacitracin sensitivity testing.
6. Avidity
7. RIA
8. B_H antigen
9. Haemagglutination inhibition
10. GLC -MIDI
11. Western blotting
12. Extension

(10×1=10)

Part B

*Answer any **six** questions.*

*Each question carries **5** marks.*

13. What is warning signage and its significance? What are the personal protective barriers used by lab technician?





14. What are the different types of waste generated in microbiology laboratory? Explain with examples. Also add a note on how they can be handled?
15. What are different basis on which cultural characteristics of organisms described?
16. What is Ouchterlony's technique? Explain.
17. State the principle of the following techniques a) Mantoux test b) Weil -Felix reaction
18. Define automation. What is need for automation in a microbiology laboratory? Briefly explain any 3 principles on which automated systems work.
19. Describe the systems that works on the principle of Oxidation-reduction of substrate metabolism as indicator of growth & substrate utilization.
20. What is the use of BACTECH systems? On what principle does it work?
21. Molecular techniques in diagnosis- Give a brief account.

(6×5=30)

Part C

*Answer any **two** questions.*

*Each question carries **10** marks.*

22. How is the antibiotic susceptibility pattern of a pathogen determined? Explain the procedure. How does this help in treatment of infection?
23. Write an essay on Immunological diagnosis.
24. Describe the principle, working and use of VITEK System.
25. Give an overview of the diagnostic techniques used in clinical microbiology.

(2×10=20)

