QP CODE: 24027462

24027462

Reg No : .....

Name : .....

B.Sc DEGREE (CBCS) REGULAR / IMPROVEMENT / REAPPEARANCE EXAMINATIONS, OCTOBER 2024

Third Semester

B.Sc Zoology Model II Medical Microbiology

VOCATIONAL COURSE - ZM3VOT06 - DIAGNOSTIC MICROBIOLOGY

2017 Admission Onwards

05528DD4

Time: 3 Hours Max. Marks : 60

Part A

*Answer any **ten** questions.*

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

1. What is the need of mask in a clinical laboratory?
2. Decontamination.
3. Name 2 bacterial growth patterns observed in liquid media.
4. IMViC.
5. MIC.
6. What is the nature of Precipitation arc when antigens are similar in nature?
7. ELISA.
8. Expand VDRL.
9. Relevance of Mantoux test.
10. Write the principle employed by any 1 automated system used for identification of pathogen.
11. Probe.
12. Name 2 emerging techniques in microbial diagnosis.

(10×1=10)

Part B

*Answer any **six** questions.*

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

13. What are biosafety cabinets? What is its relevance in microbiology?
14. List out the laboratory safety rules and universal precautions.
15. Write a note on a)DNase b) cellulose c) urease.

16. Antigen-Antibody reactions.Explain.

17. Haemmagglutination inhibition essay explain. What is its significance in virology?

18. Write a short essay on Biolog identification system.

19. How is flurophore labeled substrate or redox dyes used as indicator of growth & substrate utilization? Explain a system that works on this principles.

20. What is FAME? How can this be employed in microbial identification?

21. Elaborate on western blotting. What is its use?

(6×5=30)

Part C

*Answer any **two** questions.*

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

22. Write the principle, procedure of the following tests a)Oxidase b)Catalase c) Coagulase.

23. What do you mean by serological diagnosis? Write down in detail the principle and procedure of any 2 serological techniques used in the detection of bacterial pathogens.

24. Describe the principle, working and use of BACTECH systems.

25. Give an account of the diagnostic techniques you would use in detecting viral infections.

(2×10=20)