

B. Sc. DEGREE END SEMESTER EXAMINATION - APRIL 2021**SEMESTER – 6: ZOOLOGY (CORE COURSE)****COURSE: 15U6CRZOO11 – MICROBIOLOGY AND IMMUNOLOGY**

(Common for Regular 2018 admission & Improvement 2017/Supplementary 2017/2016 /2015 admissions)

Time: Three Hours

Max Marks: 60

PART A***Answer all questions. Each question carries 1 mark***

1. What is Lyophilization?
2. Define virion.
3. Name the causative agent of Tuberculosis.
4. Comment on growth curve.
5. What is epitope?
6. What is WIDAL test?
7. Comment on plasma cells.
8. Name the vaccine against pertusis.

(1 x 8 = 8)

PART B***Answer any six. Each question carries 2 marks***

9. What is Viral assay?
10. What is enrichment media?
11. Mention the functions of mesosomes.
12. Distinguish between flagella and pili.
13. Give an account of different types of antigens?
14. Differentiate between active and passive immunity.
15. Write notes on Nosocomial infection.
16. What are secondary lymphoid organs? How do they differ from primary lymphoid organs?

(2 x 6 = 12)

PART C***Answer any four. Each question carries 5 marks***

17. Explain briefly about the mechanism of innate immunity.
18. Explain about different methods of cultivation of animal viruses.
19. Distinguish between Gram positive and Gram negative bacterial cell wall.
20. Explain briefly the different types of carriers.
21. Describe the general structure of immunoglobulins.
22. Explain nutritional requirement and environmental factors controlling bacterial growth.

(5 x 4 = 20)

PART D***Answer any two. Each question carries 10 marks***

23. Explain the fine structure of bacteria with the help of a diagram.
24. Discuss about physical methods of sterilization.
25. Explain about different types of hypersensitivity reactions.
26. Give an account of the various cells of immune system and the roles they play in providing immunity.

(10 x 2 = 20)
