

B.Sc. DEGREE END SEMESTER EXAMINATIONS - MARCH 2020**SEMESTER – 6: ZOOLOGY (CORE COURSE)****COURSE: 15U6CRZOO11: MICROBIOLOGY AND IMMUNOLOGY***(Common for Regular 2017 Admission & Supplementary 2016 /2015 Admissions)*

Time: Three Hours

Max. Marks: 60

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

1. What is MAC?
2. What are plasma cells?
3. Define adjuvants.
4. What are monoclonal antibodies?
5. Define septicemia?
6. Which is pasteurization?
7. What is biomining?
8. Define endospores.

(1 x 8 = 8)

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

9. Describe the types of antigens.
10. Differentiate between B and T lymphocytes.
11. Explain streak plating technique.
12. List out the types of bacteria based on their shape.
13. Comment on the structure of a bacterial flagellum.
14. Comment on Bergey's manual.
15. Write a note on Coomb's test.
16. What do you mean by serum sickness?

(2 x 6 = 12)

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

17. Describe the basic structure of immunoglobulin.
18. Differentiate between live attenuated vaccines and inactivated vaccines.
19. Explain the bacterial culture techniques in detail.
20. Give an account on the scope of microbiology.
21. Explain the principle and applications of ELISA.
22. What are carriers? Add a note on different types of carriers in microbial infection.

(5 x 4 = 20)

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

23. Explain the structure of a bacterial cell and describe all parts using a neat diagram.
24. Write an essay on various types of hypersensitivity.
25. Explain in detail about the cultivation of virus.
26. Write an essay on complement pathways. Describe the functions.

(10 x 2 = 20)
