Reg. No…….. Name…… **19U633**

B. Sc. DEGREE END SEMESTER EXAMINATIONS - MARCH 2019

SEMESTER **– 6: ZOOLOGY (CORE COURSE)**

COURSE: **15U6CRZOO11 : MICROBIOLOGY AND IMMUNOLOGY**

(Common for Regular - 2016 Admission / Supplementary-Improvement 2015 Admission)

Time: Three Hours Max. Marks: 60

Part A

Answer **all** questions. *Each question carries one mark*

1. What is lyophilization?
2. What are the functions of pili?
3. Define viroids.
4. What do you mean by nosocomial infection?
5. What is candidiasis?
6. Which are the cardinal signs of inflammation?
7. What are haptens?
8. Define MHC (1 x 8 = 8)

PART B

Answer **any six**. *Each question carries two marks.*

9. Explain the structure of a bacteriophage.
10. Compare the cell wall of gram positive and gram negative bacteria.
11. Explain how viruses differ from other microorganisms.
12. Briefly explain immunology of erythroblastosis foetalis.
13. Comment on the functions of immunoglobulins.
14. What are monoclonal antibodies?
15. Write a note on different types of grafts.
16. Discuss Koch's postulates. (2 x 6 = 12)

PART C

Answer **any four**. *Each question carries five marks*

17. Describe primary lymphoid organs.
18. What is autoimmunity? Give an account on autoimmune diseases.
19. Explain the bacterial growth curve in detail.
20. What are the various sterilization methods used in microbiology?
21. Differentiate between innate and acquired immunity.
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 ten marks*

23. Explain the structure of a bacterial cell and describe all parts using a neat diagram.
24. Write an essay on the clinical applications of various types of antigen-antibody reactions.
25. Write an essay on the types of vaccines. Cite suitable examples.
26. Write an essay on the epidemiology and symptoms of various bacterial and viral diseases.

(10 x 2 = 20)

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