Reg. No ..... Name **23U642**

B. Sc. DEGREE END SEMESTER EXAMINATION : MARCH 2023

SEMESTER 6 : ZOOLOGY

COURSE : **19U6CRZOO11: MICROBIOLOGY AND IMMUNOLOGY**

(For Regular - 2020 Admission and Supplementary - 2019 Admission)

Time : Three Hours Max. Marks: 60

PART A

Answer All (1 mark each)

1. Comment on the contributions of Bergey as a microbiologist.
2. Comment on the role of Robert Hooke as a microbiologist.
3. What is viral envelope made up of?
4. Define endemic disease.
5. What are toxoids?
6. Who developed immunization against small pox using cow pox virus?
7. Define an antigen.
8. Name two lymphocytes.

(1 x 8 = 8)

PART B

Answer any 6 (2 marks each)

9. Comment on nutrient agar.
10. Comment on autoclave.
11. Comment on continous culture.
12. Differentiate primary and secondary infections.
13. What are the preventive measures to be taken for polio?
14. Comment on dermatophytoses.
15. Briefly explain MALT.
16. Discuss the immunology of blood transfusion.

(2 x 6 = 12)

PART C

Answer any 4 (4 marks each)

17. Briefly expalin different types of culture media based on texture.
18. Brief on the different techniques used for microbial culture preservation.
19. List out and brief on the different modes of disease transmission.
20. Briefly explain the different types of adaptive immunity.
21. Briefly explain the various mechanisms involved in innate immunity.
22. Briefly explain the primary lymphoid organs in man.

(4 x 4 = 16)

PART D

Answer any 2 (12 marks each)

23. Elaborate on physical methods of steriliszation.
24. Explain the role played by microbes in various field of our life.

25. Expalin the different categories of immune disorders giving one example each.

26. With the help of a digram explain the basic structure of antibody. Also add a note on the different classes of immunoglobulins.

(12 x 2 = 24)