Reg. No	Name	25U644
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B.Sc. DEGREE END SEMESTER EXAMINATION - MARCH 2025 SEMESTER 6: ZOOLOGY

COURSE: 19U6CRZOO11 - MICROBIOLOGY AND IMMUNOLOGY

(For Regular 2022 Admission and Supplementary 2021/2020/2019 Admissions)

Time: Three Hours Max. Marks: 60

PART A Answer All (1 mark each)

- 1. Define immunology.
- 2. What are prions?
- 3. Define secondary infection.
- 4. Expand DPT.
- 5. What is a hapten?
- 6. How did Robert Koch prove germ theory?
- 7. The receptor type present on TH cell.
- 8. Give the scientific name of baker's yeast.

 $(1 \times 8 = 8)$

PART B

Answer any 6 (2 marks each)

- 9. List out the symptoms of influenza.
- 10. Give four methods of dry heat applications for sterilization.
- 11. Comment on the phase of decline of bacterial growth.
- 12. Define carriers in a disease. Give an example.
- 13. Comment on Candidiasis.
- 14. Differentiate primary and secondary response.
- 15. Comment on anaphylaxis.
- 16. How do chemicals inactivate microbes?

 $(2 \times 6 = 12)$

PART C

Answer any 4 (4 marks each)

- 17. Elaborate on the different culture techniques used in microbiology labs.
- 18. Comment on the significance of ELISA. Brief on sandwich and indirect ELISA.
- 19. Briefly explain the various mechanisms involved in innate immunity.
- 20. Brief on the pathogen, symptoms and prophylaxis of dermatophytosis.
- 21. Briefly explain the physical methods of sterilization.
- 22. Briefly explain the process of MHC antibody synthesis.

 $(4 \times 4 = 16)$

PART D

Answer any 2 (12 marks each)

- 23. Explain the role played by microbes in various field of our life.
- 24. What is hypersensitivity? Explain in detail each type.
- 25. Define immunity. Give its classification. Add a brief note on each type.
- 26. Elaborate the structure of viruses and add a note on its replication.

 $(12 \times 2 = 24)$

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