

Reg. No

Name

24U642

B. Sc. DEGREE END SEMESTER EXAMINATION - MARCH 2024
SEMESTER 6 - ZOOLOGY

COURSE : 19U6CRZOO11 - MICROBIOLOGY AND IMMUNOLOGY

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

Time : Three Hours

Max. Marks: 60

PART A

Answer All (1 mark each)

1. What is primary response?
2. Define immunology.
3. What is a hapten?
4. How did Robert Koch prove germ theory?
5. Comment on the contributions of Bergey as a microbiologist.
6. Who developed immunization against small pox using cow pox virus?
7. Define pandemic disease.
8. What is viral envelope made up of?

(1 x 8 = 8)

PART B

Answer any 6 (2 marks each)

9. Differentiate primary and secondary infections.
10. Briefly explain MALT.
11. List out the environmental factors affecting bacterial growth.
12. Comment on AIDS.
13. How do chemicals inactivate microbes?
14. What are the symptoms of typhoid?
15. What are the advantages and disadvantages of liquid media?
16. Comment on opportunistic pathogens taking fungi as an example.

(2 x 6 = 12)

PART C

Answer any 4 (4 marks each)

17. Briefly explain different types of culture media based on texture.
18. Briefly explain the basic structure of immunoglobulin.
19. Briefly explain secondary lymphoid organs taking lymph nodes and spleen as examples.
20. Brief on the pathogen, symptoms and prophylaxis of dermatophytosis.
21. Comment on animal and bacterial viruses.
22. Briefly explain the physical methods of sterilization.

(4 x 4 = 16)

PART D

Answer any 2 (12 marks each)

23. What is hypersensitivity? Explain in detail each type.
24. With the help of a digram explain the bacterial anatomy.
25. Explain different types of immune disorders.
26. Explain the different types of culture media and culture techniques used in microbiology labs.

(12 x 2 = 24)