

B.Sc. Part-II
Paper-III Immunology, Microbiology & Biotechnology

A. Short answer type questions

1. What are haptens?
2. Define opsonization.
3. What is a plasma cell?
4. Name the pathogens causing Gonorrhea and Tetanus.
5. What are Restriction enzymes?
6. What is the role of Fimbriae in Bacteria?
7. Define Protoplast. What is the role of plasmids in genetic engineering?
8. What are Continuous cell lines?
9. Define Plasmids and Interferons.
10. Write the three types of cloning.
11. Write various methods of food preservation.
12. Write any two mode of transmission of Hepatitis-B.
13. What are monoclonal antibodies? Draw structure of any one antibody.
14. Define culture media.
15. Name any four diseases caused by bacteria.
16. Define agglutination.

B. Long answer type questions

1. What is cell mediated immunity? Describe the functions of various cells involved in it.
2. What are primary lymphoid organs? Describe their role in immune response.
3. Differentiate between Gram- positive and Gram-negative bacteria on the basis of cell wall structure.
4. Write in detail about various protoplast fusion methods.
5. Describe the role of microbes in alcoholic beverages.
6. Write a detailed account on Hybridoma technology.
7. Describe the structure and functions of plasma cells.
8. Write an account on origin transmission and treatment of AIDS.
9. Describe the importance of Transgenic animals.
10. Differentiate between primary and secondary immune responses.