

1. Discuss the mechanisms of autoimmunity. Discuss the various autoimmune diseases. Write a note on the different methods of detection of autoimmune disease.
2. Write in detail about the methods of isolating bacteria in pure culture.
3. Discuss the immunological aspects of organ transplantation. Brief about. HLA typing and add a note on immunomodulators.
4. Discuss the mechanism of Biofilm formation and its role in emerging bacterial resistance.
5. What are the recent advances in the production of monoclonal antibodies and their applications?
6. Write the differences between exotoxin and endotoxin. What are the various tests available for detection of exotoxins? Write the uses of toxins in microbiology.
7. Briefly describe the various methods by which the bacteria can acquire new genes. Write in short about mobile genetic elements.
8. Principle, technique and applications of plasma sterilization. Add a note on CSSD.
9. Describe the different types of electron microscopes with principles and applications.
10. Define a vaccine. Describe the advantages active vaccination over passive vaccination with examples. Write in detail about newer vaccines.

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