

## HOME ASSIGNMENT- Microbiology -2025

- 1. Define virulence. List the mechanisms of virulence in bacteria and explain in detail.**
- 2. Explain sterilization and disinfection. Classify various levels of disinfectants and explain each. Add a note on CSSD.**
- 3. Enumerate the types of Ag -Ab reaction. Explain in detail the newer methods.**
- 4. Define Standard precautions. Explain in detail needle stick injury and its management.**
- 5. Define HAI and explain in detail types of HAI with management**
- 6. Explain the types of antibodies and draw the diagram for IgM and IgA. Add a note on monoclonal antibody and its clinical applications**
- 7. Explain the life cycle of Malaria and discuss the lab diagnosis in detail. Draw the morphological forms of malarial parasite.**
- 8. Pathogenesis, lab diagnosis with diagnostic criteria for Infective endocarditis. Discuss the management of each scenario based on the etiological agents and clinical condition**
- 9. Etiopathogenesis, lab diagnosis of HIV based on NACO Strategy.**
- 10. Discuss Hepatitis B. Mode of transmission, Laboratory diagnosis and add a note on immunoprophylaxis.**



11. List in tabular form CSF parameters for bacterial , viral and tubercular meningitis and explain lab diagnosis and management of all .
12. Discuss various mechanisms of Autoimmunity.



*Betsy*

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