1. Enumerate the methods used for routine bacteriological examination of water. Write briefly on presumptive coliform count.  
2. What is an Infection Control Committee? Who are the members of this committee and what is its role?  
3. What are the different types of vancomycin resistance in enterococci? Elaborate the detection methods of vancomycin resistance according to CLSI guidelines.  
4. Enumerate the causes of chronic meningitis in India. Briefly outline the laboratory diagnosis with special reference to recent advances.  
5. Define MIC. What do you understand by MIC$_{50}$ and MIC$_{90}$? Briefly outline methods of MIC determination along with their advantages and disadvantages.  
6. Enumerate the various molecular methods in diagnostic Microbiology. Briefly describe each with their clinical applications.  
7. Define emerging and re-emerging infections. Enumerate their infections in India. List the factors contributing to emerging infections and methods to detect them.  
9. Enumerate various antigen antibody reactions. Define agglutination and briefly describe various types of agglutination reaction with suitable examples.  
10. What do you understand by laboratory accreditation and how is it done? What are the advantages of this?

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