

MICROBIOLOGY - I

1. Give an account on history and developments in microbiology. (LQ)
2. Explain about various contributions in microbiology (LQ)
3. Explain the importance and application of microbiology (LQ)
4. Explain about Transmission electron microscope and its uses. (LQ)
5. Write a note on ocular and stage micrometers (SQ)
6. Explain Dark-field microscope, Scanning electron microscope. (SQ)
7. Explain about hanging drop method (LQ) or (SQ)
8. Explain about differential staining (LQ).
 - Negative staining (SQ)
 - Endospore staining (SQ)
 - Capsular staining (SQ)
 - Flagellar staining (SQ).
 - Simple staining (SQ).
9. Give an account on physical methods of sterilization? (LQ).
10. Give an account on chemical methods of sterilization? (LQ).
11. Explain about phenol coefficient method (or) Ridal Walker test (SQ)

12. Write a note on Isolation of pure cultures (15 LQ).

13. Special methods for isolation.

(i) Micromanipulator method (2Q)

(ii) Enrichment culture method (2Q).

14. Write a note on preservation of microbial cultures. (10Q).