



## SECTION-B

11. Write notes on :
  - a) Importance of preservation of pure cultures
  - b) Gram staining
12. Describe in detail the methods employed for evaluation of disinfectants.
13. How will you carry out microbiological assay as per IP?

## SECTION-C

14. Classify bacteria on the basis of their nutritional requirements.
15. Describe filtration as a method of sterilization.
16. Write a note on sterility indicators.
17. Write a note on various sources of contamination.
18. What is Microbial Spoilage? Discuss the various factors affecting spoilage.
19. Write a note on transformed cell lines.
20. Write a note on construction and classification of clean room area.
21. Describe the principle and working of phase contrast microscopy.
22. Write a note on IMViC.

**NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.**