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B.Pharma (2017 Batch) (Sem.-3)
PHARMACEUTICAL MICROBIOLOGY
Subject Code : BP-303T
M.Code : 75107

Max. Marks : 75

1. **SECTION-A is COMPULSORY** consisting of **TEN** questions carrying **TWO** marks each.
2. **SECTION-B** contains **THREE** questions carrying **TEN** marks each and student has to attempt any **TWO** questions.
3. **SECTION-C** contains **NINE** questions carrying **FIVE** marks each and student has to attempt any **SEVEN** questions.

1. Answer briefly :

- a) Differential media
- b) Acid fast staining
- c) Antiseptics
- d) Z value
- e) Primary cell culture
- f) Microbial spoilage
- g) Microbiological assay
- h) Preservative capacity
- i) CFU
- j) Log phase

SECTION-B

2. Discuss in detail the sterilization procedures employed for thermolabile materials.
3. Write notes on :
 - a) Evaluation of disinfectants
 - b) Electron microscopy
4. Describe the following :
 - a) Evaluation of microbial stability of formulations
 - b) Growth of Anchorage dependent cells

SECTION-C

5. Write a note on various sources of contamination.
6. Highlight the applications of cell culture in pharmaceutical industry.
7. Describe the method used for sterility testing of ophthalmic products.
8. What are the different types of media used for growth of bacteria?
9. Write a note on preservation methods of pure cultures.
10. Describe the replication of viruses.
11. How will you carry out IMViC test?
12. Highlight the importance of study of microbiology in pharmacy.
13. Write a note on types of microbial spoilage.

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.