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Total No. of Pages : 02

Total No. of Questions : 13

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

Time : 3 Hrs.

Max. Marks : 75

INSTRUCTIONS TO CANDIDATES :

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.

SECTION-A**1. Define briefly :**

- a. Antiseptic
- b. Disinfectants
- c. Grams Staining
- d. Sterilization
- e. Sterility testing

Differentiate between/Answer briefly :

- f. Disinfectant and antiseptic
- g. Gram positive and gram negative bacteria.
- h. insoluble powders and oily preparations
- i. Why it is necessary to wrapped brown paper before autoclaving?
- j. What are the precautions to be taken while autoclaving empty test tubes or petriplates?

SECTION-B

2. Explain construction, working, principle and validation of horizontal Autoclave.
3. Explain method for the testing of sterility.
4. Write short notes on :
 - a. Monitoring of sterilization process
 - b. BCG vaccine

SECTION-C

5. Classify microbes with examples.
6. How disinfectants evaluated?
7. Explain laminar air flow device.
8. What is microbial assay? Give method for the assay of ciprofloxacin.
9. Explain Aseptic processing methods.
10. What is the Sensitivity of microorganisms?
11. Explain the sources and type of microbial contamination.
12. Highlight the applications of cell culture in pharmaceutical research.
13. Give the methods for the standardization of amino acids.

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.