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Total No. of Pages : 02

Total No. of Questions : 10

B.Pharma (2011 to 2016) (Sem.-6)
PHARMACEUTICAL MICROBIOLOGY
Subject Code : BPHM-605
M.Code : 71037

Time : 3 Hrs.

Max. Marks : 80

INSTRUCTION TO CANDIDATES :

1. **SECTION-A** is **COMPULSORY** consisting of **FIFTEEN** questions carrying **TWO** marks each.
2. **SECTION-B** contains **FIVE** questions carrying **FIVE** marks each and students have to attempt any **FOUR** questions.
3. **SECTION-C** contains **FOUR** questions carrying **TEN** marks each and students have to attempt any **THREE** questions.

SECTION-A**Q1. Define the following :**

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

Differentiate between

- f. Actinomycetes and Rickettsiae
- g. Toxin and Toxoid
- h. Vitamins and antibiotics
- i. Transcription and Translation
- j. catguts and eye drops



Answer Briefly :

- k. How following materials tested for sterility :
0.9% w/v, 500ml Sodium chloride injection and WFI
- l. What is the significance of D value?
- m. What are culture media and how they are sterilized?
- n. Why it is necessary to wrapped brown paper before autoclaving?
- o. What are the precautions to be taken while autoclaving empty test tubes or petriplates?

SECTION-B

- Q2. Give principle and procedure for staining techniques.
- Q3. Give different methods for the evaluation of disinfectants and explain any two.
- Q4. What is electron microscopy? Give its applications.
- Q5. What is microbial assay? Give method for the assay of vitamins.
- Q6. Write short note on :
 - a. Diagnostic preparations
 - b. Structure of Bacterial cell

SECTION-C

- Q7. Explain construction, working, principle and validation of horizontal Autoclave.
- Q8. How Dephtheria toxoid vaccine and staphylococcus vaccine prepared?
- Q9. Explain method for the testing of sterility.
- Q10 Write short note on :
 - a. Monitoring of sterilization process
 - b. BCG vaccine

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.