



Roll No.

Total No. of Pages : 02

Total No. of Questions : 10

**B.Pharma (2012 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**

**1. Define the following :**

- a. Inoculation
- b. Sterilization
- c. MIC
- d. Toxoid
- e. Plague

**Differentiate between**

- f. virus and fungi
- g. Disinfectant and antiseptic
- h. D value and Z value
- i. Transcription and translation



**How following materials tested for sterility :**

- j. Eye solutions and drops
- k. Paracetamole injection and WFI
- l. What is the significance of F value?
- m. How test tubes, culture media, cotton and conical flask sterilized?
- n. Why test tubes containing culture media plugged with cotton and then wrapped with brown paper before autoclaving?
- o. How autoclaving of petriplates differ from test tubes containing cultural media?

**SECTION-B**

- 2. Explain Diagnostic preparations.
- 3. How disinfectants evaluated?
- 4. How microorganisms identified. Explain electron microscopy.
- 5. What is microbial assay? Give method for the assay of Vitamin B12.
- 6. Write short note on :
  - a. Aseptic processing
  - b. Sensitivity of microorganisms

**SECTION-C**

- 7. What is sterilization? Enumerate methods for sterilization.
- 8. What are vaccines? How Diphtheria toxoid vaccine and Plague vaccine prepared?
- 9. What is sterility testing? How sterility testing is conducted as per IP.
- 10. Write short note on :
  - a. Laminar air flow
  - b. Antibody preparations

**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.**