

Roll No. 

Total No. of Pages : 02

Total No. of Questions : 18

**Pharm D. (Sem.-2)**  
**PHARMACEUTICAL MICROBIOLOGY**  
Subject Code : 2.2  
M.Code : 26515

Time : 3 Hrs.

Max. Marks : 70

**INSTRUCTION TO CANDIDATES :**

1. SECTION-A contain SEVEN questions. Attempt any FIVE questions. Each question will carry TWO marks each.
2. SECTION-B contain EIGHT questions (Short Essay Type). Attempt any SIX questions. Each question will carry FIVE marks.
3. SECTION-C contain THREE questions (Long Essay Type). Attempt any TWO questions. Each question will carry FIFTEEN marks.

**SECTION-A****Define :**

- Q1. Disinfectants
- Q2. Grams Staining
- Q3. Sterility testing

**Differentiate between**

- Q4. Toxin and Toxoid
- Q5. Vitamins and antibiotics
- Q6. How petriplates and gowns sterilized
- Q7. Why it is necessary to wrapped brown paper before autoclaving?

**SECTION-B**

- Q8. What is the principle and procedure of microbiological staining?
- Q9. Give different methods for the evaluation of disinfectants and explain any two.

- Q10. What is Immunity? Classify it with examples.
- Q11. Give principles and methods of different microbiological assay.
- Q12. Explain microbial assay of streptomycin.
- Q13. Explain the validation of sterilization process?
- Q14. How vaccines are standardized.
- Q15. Explain the Structure of Bacteria.

**SECTION-C**

- Q16. Explain construction, working, principle and uses of horizontal Autoclave.
- Q17. Explain diagnostic tests?
- Q18. Write short note on Malaria and HIV.

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**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.**