

**Class : I UG  
Branch : PHYSIOTHERAPY**

**Time : 2 Hours  
Max. Marks : 60**

**22BPTC10 MICROBIOLOGY**

**Course outcomes:**

CO1: Knowledge about disease and changes in structure and function of cells during disease condition gained.

CO2: Understand about importance of nutrition, function of nutrition and its deficiency diseases gained

CO3: Learn the Pathogenesis and pathological changes of disease in various body system.

CO4: Knowledge about the various microorganisms, its classification and structure gained.

CO5: To Know about the various disease caused by microorganism and its prevention

**Part A**

**Answer all questions (1 x 6 = 6 marks)**

- |   |       |
|---|-------|
| 1. All of these refer medical asepsis except          | CO1K1 |
| a) handwashing b) mask c) pasteurization d) bathing   |       |
| 2. Archaea are type of                                | CO1K1 |
| a) algae b) fungi c) bacteria d) virus                |       |
| 3. Rod shaped bacteria example                        | CO1K1 |
| a) Sarcina b) Bacilli c) Cocci d) Vibrio              |       |
| 4. IgE mediated hypersensitivity is                   | CO2K1 |
| a) Type I b) Type II c) Type III d) Type IV           |       |
| 5. Immunoglobulins present in tears                   | CO2K1 |
| a) A b) E c) G d) D                                   |       |
| 6. Flash method of pasteurization employs temperature | CO2K1 |
| a) 121 degree b) 80 degree c) 62 degree d) 72 degree  |       |

**Part B**

**Answer All questions (3 x 6 = 18 marks)**

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|---|-------|
| 7. A) Differentiate medical asepsis and surgical asepsis (or) | CO1K3 |
| B) Describe structure of bacterial cell                       | CO1K2 |
| 8. A) Describe about Fungi (or)                               | CO1K2 |
| B) Describe Gram staining and its significance                | CO2K2 |
| 9. A) Differentiate Humoral and cell mediated immunity (or)   | CO2K2 |
| B) Explain about Fungi  | CO1K2 |

**Part C**

**Answer all questions (3 x 12 = 36 marks)**

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|---|--------|
| 10. A) Discuss the pathogenesis of infection              | CO3K2  |
| B) Explain Antigen antibody reaction and its applications | CO2 K3 |
| 11. A) Discuss Innate Immunity or                         | CO2K3  |
| B) Illustrate the structure and classification of Virus   | CO1K2  |
| 12. A) Enumerate Sterilization techniques                 | CO1K2  |
| B) Discuss Hypersensitivity                               | CO2K3  |