

Pharmacy, Hyderabad  
**FACULTY OF PHARMACY**

**B. Pharmacy II-Year I-Semester (Suppl.) Examination, April 2015**

**Subject : Pharmaceutical Microbiology**

**Time : 3 Hours**

**Max. Marks: 70**

**Note: Answer all questions. All questions carry equal marks.**

- 1 (a) (i) Explain in detail about parts external to cell wall of bacteria. (8)  
(ii) Explain about Bright field microscopy. (6)  
**OR**  
(b) (i) Write the methods of preservation of pure cultures. (7)  
(ii) Write about cultivation and isolation of anaerobic bacteria. (7)
- 2 (a) (i) Explain replication of animal viruses. (10)  
(ii) Write about morphology of animal viruses. (4)  
**OR**  
(b) What are mutations? Explain in detail about Mutagenesis. (14)
- 3 (a) What is sterilization? Explain in detail about Heat Sterilization. (14)  
**OR**  
(b) Explain Evaluation methods of Disinfectants.
- 4 (a) What is Virulence and Pathogenesis? Explain in detail about Phagocytosis. (4+10)  
**OR**  
(b) (i) Write about Hypersensitivity reactions. (10)  
(ii) Differences between Exotoxins and Endotoxins. (4)
- 5 (a) Write organism, mode of transmission, pathogenesis, symptoms, treatment, prevention and control of Tuberculosis and Typhoid. (14)  
**OR**  
(b) (i) Explain types of microorganisms present in Milk and their characteristics. (9)  
(ii) Describe the systematic study of Streptomyces species. (6)

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