

**FACULTY OF PHARMACY**  
**Pharm. D (6 YDC) II-Year (Instant) Examination, March 2018**

**Subject : Pharmaceutical Microbiology**

**Time : 3 Hrs**

**Max. Marks: 70**

**Note: Answer all questions from Part – A, answer any five questions from Part-B.**

**PART – A (10 x 2 = 20 Marks)**

- 1 Antiseptics
- 2 Active immunity
- 3 Importance of booster dose
- 4 Differences between Exotoxins and Endotoxins
- 5 Widal test
- 6 Negative staining
- 7 Types of immunoglobulins
- 8 Photolithotrophs
- 9 Fungi
- 10 Virucide

**PART – B (5 x 10 = 50 Marks)**

- 11 (a) Discuss abt the microbes importance in industrial microbiology. (5)  
(b) Write a brief note on Germ theory of disease with a mention of Koch's postulates. (5)
- 12 Describe the general characteristics of viruses. Write abt viral replication. (10)
- 13 (a) Write abt ricketts sisals. (5)  
(b) Discuss the varis methods of isolation of bacteria and the preservation of pure cultures. (5)
- 14 (a) Discuss varis methods of sterilization of pharmaceutical products. (7)  
(b) Write a brief note on test for sterility. (3)
- 15 (a) What are disinfectants? Write abt different classes of disinfectants. (7)  
(b) Write a note on R.W. (Real walker) test. (3)
- 16 Write a note on microbial assays of antibiotics and write abt penicillin assay. (10)
- 17 (a) Discuss briefly on Antigen-Antibody reactions.  
(b) Write a general note on principle involved in blotting techniques.
- 18 Write abt pathogenesis, lab diagnosis and prevention of infection diseases  
(a) HIV  
(b) Tuberculosis

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