

FACULTY OF PHARMACY**B. Pharmacy 2/4 I-Semester (Main) Examination, November 2015****Subject : Pharmaceutical Microbiology****Time : 3 Hours****Max. Marks: 70*****Note: Answer all questions. All questions carry equal marks.***

- 1 (a) (i) Write in detail about Isolation of aerobic and anaerobic bacteria. (7)
(ii) Write about enumeration of bacteria. (7)
OR
(b) (i) Explain cultivation of bacteriophage and animal viruses. (9)
(ii) Discuss Nutrition requirements of bacteria. (5)
- 2 (a) (i) What is growth? Explain growth phases of bacteria. (10)
(ii) Define stain. Explain types of stains. (4)
OR
(b) (i) Discuss morphology of bacterial and animal viruses. (8)
(ii) Explain indole production test and Urease test. (6)
- 3 (a) (i) What is sterilization? Explain in detail about Pasteurization and Tyndalization techniques. (8)
(ii) Write about sterilization indicators. (6)
OR
(b) (i) What are the factors influencing Disinfectants? (4)
(ii) Explain about Redial-Walker and Chick-Martin tests. (10)
- 4 (a) (i) Write in detail Humoral and Cell mediated immunity. (12)
(ii) Write about toxoids. (2)
OR
(b) Explain in detail about serological reactions. (14)
- 5 (a) Write organism, mode of transmission, pathogenesis, symptoms, treatment, prevention and control of Poliomyelitis and Influenza. (14)
OR
(b) (i) Write about detection of Coliform bacteria in water. (8)
(ii) Describe the systematic study of Pencillium species. (6)
