

Code No. 7210 / S

FACULTY OF PHARMACY**B. Pharmacy II Year I – Semester (Supply) Examination, March 2014****Subject: Pharmaceutical Microbiology****Time: 3 Hours****Max.Marks: 70*****Note: Answer all questions. All questions carry equal marks.***

- 1 (a) Give a detailed account of the methods employed to isolate pure cultures. (8)
(b) Write a note on nutritional requirements of bacteria. (6)
OR
(c) Classify Myceteae. Describe the importance of penicillium species. (7)
(d) Describe the constitution of cell walls of gram negative, positive and acid fast bacteria. (7)
- 2 (a) Describe the quantitative methods employed to measure bacterial growth. (9)
(b) Write a note on differential staining. (5)
OR
(c) Discuss chemical mutagens and repair mechanism in mutation. (8)
(d) Write a note on genetic organization of virus. (6)
- 3 (a) Explain the modes of destruction of micro organisms using high temperature. (8)
(b) Write a note on gamma rays. (6)
OR
(c) Elaborate on the types of radiations and filters utilized for sterilization. (7)
(d) Write a note on laminar air flow. (7)
- 4 (a) Explain the first line defense mechanism adopted by the host. (8)
(b) Briefly describe immunological memory. (6)
OR
(c) How does an antigen differ from an antibody? Explain the source and nature of antigens. (8)
(d) Explain the structure of immunoglobulin. (6)
- 5 (a) Identify the etiological agents responsible for infective hepatitis and add a comment on its clinical manifestation. (8)
(b) Explain the methods of pasteurization of milk and tests employed in the gradation of milk. (6)
OR
(c) Explain the modes of transmission and clinical signs and symptoms of
(i) Typhoid, (ii) Filariasis. (8)
(d) Add a note on E.coli as a human pathogen. (6)
