

Code No. 1069

FACULTY

**B. Pharmacy 2/4 I – Semester (Supplementary) Examination,
November 2017**

Subject : Pharmaceutical Microbiology

Time : 3 hrs

Max. Marks : 70

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

- 1 a) What is Microscopy? Explain in detail abt types of Microscopes. 14
OR
b) Describe different methods of enumeration of bacteria and preservation of pure cultures. 14
- 2 a) What are Mutations and Types of Mutations. Explain different methods of inducin mutations. 14
OR
b) Explain in detail abt replication of animal viruses. 14
- 3 a) What is sterilization? Describe heat sterilization in detail. 14
OR
b) What is phenol coefficient test? Explain in detail abt suspension tests. 14
- 4 a) Describe Immune response and Humoral Immunity. 14
OR
b) What are serological reactions? Explain complement fixation tests and enzyme immuno assays. 14
- 5 a) Write in detail abt causative organism, mode of transmission pathogenesis, symptoms, diagnosis, treatment, prevention and control of Tuberculosis and typhoid. 14
OR
b) Write abt the microbiology of milk. 14
