

Code No: B3102

**R10**

**SET-1**

**III B. Pharmacy I Semester Supplementary Examinations, Oct/Nov - 2017**

**PHARMACEUTICAL MICROBIOLOGY**

Time: 3 hours

Max. Marks: 75

Answer any **FIVE** Questions  
All Questions carry **Equal** Marks

1. a) Write the contributions of Antony von Lewvonhock & Koch. (8M)  
b) Explain in detail about origin & scope of spontaneous generation theory. (7M)
2. a) Compare and contrast prokaryotes and eukaryotes. (8M)  
b) Write a note on pharmaceutical significance of Algae & Fungi. (7M)
3. a) Discuss in brief about cultivation of aerobic and anaerobic bacteria. (8M)  
b) Write the composition of ideal media for bacterial growth. (7M)
4. a) Give an account on microbial adaptations of microbes to extreme cold ionic effect and vibration. (8M)  
b) Explain the mechanism involved in the microbial adaptations to electricity, radiant energy and mechanical impact. (7M)
5. a) Explain about various factors affecting the sterilization and disinfection. (8M)  
b) Write a note on phenol co-efficient method and direct inoculation method. (7M)
6. a) Give an account on genetic recombinations in bacteria. (8M)  
b) Explain the process of transcription. (7M)
7. Write the etiology, diagnosis, source of infection and mode of transmission of the following diseases. (15M)
  - a) Bacillary dysentery
  - b) Leprosy
  - c) Syphilis
8. a) Explain the principle & procedure involved in the assay of vitamin B<sub>12</sub>. (8M)  
b) Write the pharmaceutical applications of Antibiotics & Enzymes. (7M)