

Code: 9R01502

B.Pharm III Year I Semester (R09) Supplementary Examinations June 2018

PHARMACEUTICAL MICROBIOLOGY

(For 2009 (LC), 2010, 2011, 2012 regular & 2011 (LC), 2012, 2013 lateral admitted batches only)

Time: 3 hours

Max. Marks: 70

Answer any FIVE questions
All questions carry equal marks

- 1 Explain the contributions and discovery of Antoni Van Leeuwenhoek and Louis Pasteur to microbiology.
- 2 Define and classify the bacteria. Describe the bacterial morphology and their organelles with neat diagram.
- 3 (a) Briefly explain the isolation of microbes.
(b) Explain the methods of determining bacterial numbers, mass and cell constituents.
- 4 (a) Explain the construction and working of autoclave.
(b) Explain the official methods of sterility testing of parenteral products.
- 5 (a) Define mutation. Explain various types of mutational process.
(b) Write a note on "DNA replication".
- 6 (a) Describe the microbial limit test official in IP.
(b) Briefly explain the microbiological analysis of water.
- 7 Explain the etiology, source of infection, mode of transmission, immunization and prevention of syphilis and gonorrhea.
- 8 (a) Write the microbial source and application of antibiotics, vitamins, amino acid & enzymes.
(b) Write the application of bio-sensor.
