

**R09****Code: 9R01502**

B.Pharm III Year I Semester (R09) Supplementary Examinations November/December 2016

**PHARMACEUTICAL MICROBIOLOGY**

Time: 3 hours

Max. Marks: 70

Answer any FIVE questions  
All questions carry equal marks

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- 1 (a) Write a note on the contributions of Joseph Lister.  
(b) Outline the contributions of Anton Van Leeuwenhoek.
- 2 With the help of a neat labeled diagram, describe the 'Eukaryotic' and 'Prokaryotic' cell structure.
- 3 (a) Write a note on factorial growth curve.  
(b) Explain the methods for determining factorial numbers.
- 4 Describe the various methods of quantitative evaluation of microbial contamination.
- 5 Explain the mode of action, applications and limitations of chemical agents used in the control of microbial growth.
- 6 Write a detailed note on DNA replication.
- 7 Briefly describe the etiology, diagnosis, source of infection, mode of transmission and immunization methods of cholera.
- 8 Write the microbial source and applications of any seven antibiotics.

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