

Code No: B3102/R10

**Set No.1****III B.Pharmacy I Semester Supplementary Examinations, May 2017**  
**PHARMACEUTICAL MICROBIOLOGY****Time: 3 hours****Max Marks: 75****Answer any FIVE Questions**  
**All Questions carry equal marks**

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1. Discuss the contributions of Lister, Pasteur and Koch? [15]
2. Write in detail about prokaryotic cell structure with neat labeled diagram? [15]
3. (a) What are exponential growth and generation time. Describe the effect of salt concentration on growth of bacteria.  
(b) Describe the methods of cultivation of anaerobic bacteria. [8+7]
4. What nutritional requirements in terms of chemicals needed by all forms of bacteria for growth and cellular maintenance? [15]
5. (a) What are depth filters and membrane filters and how are they used to sterilize liquids.  
(b) Describe the patterns of microbial death caused by treatment with microbial control agents. [8+7]
6. (a) What are point mutations and what are their consequences?  
(b) Briefly explain how gene activity is controlled at the level of gene transcription. [8+7]
7. Write short notes on (a) Microbial toxins.  
(b) Immunoglobulins (immunizing agents). [8+7]
8. (a) What are microbial assays? Write the advantages and disadvantages of microbial assays compared to chemical assays.  
(b) Write about the automation of microbial assays. [8+8]

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