

Total No. of Questions : 8]

[Total No. of Printed Pages : 2

Roll No

BP-303 T (CBGS)**B.Pharm., III Semester (PCI Scheme)**

Examination, December 2017

Choice Based Grading System (CBGS)**Pharmaceutical Microbiology***Time : Three Hours**Maximum Marks : 75*

- Note:* i) Attempt any five questions.
ii) All questions carry equal marks.

1. Discuss historical development of microbiology. Mention contribution of Louis Pasteur.
2. Differentiate between:
 - a) Eukaryotes and Prokaryotes
 - b) Gram +ve and Gram -ve bacteria
 - c) Bacteria and Virus
3. What are the nutritional requirements of bacteria? Discuss cultivation of anaerobic bacteria.
4. Define sterilization. Write about chemical methods of sterilization along with their mode of action and examples.

[2]

5. Write notes on:
 - a) Sterility indicators
 - b) Bacterial growth curve
 - c) Morphological features of fungi
6. Discuss various factors influencing disinfection. How disinfectants and antiseptic agents are evaluated?
7. What is spoilage? Explain various sources and types of microbial contaminants.
8. Write short notes on any three of the following:
 - a) Quantitative measurement of bacterial growth
 - b) IMViC tests
 - c) HEPA Filter
 - d) Assessment of new antibiotic
 - e) Primary and transformed cell cultures
