

Roll No .....

**PY-304**

**B.Pharm., III Semester**

Examination, December 2016

**Choice Based Credit System (CBCS)**

**Pharmaceutical Microbiology**

*Time : Three Hours*

*Maximum Marks : 80*

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

1. Draw a well labeled diagram of bacterial cell and explain various intracellular organelles.
2. Describe a typical bacterial growth curve.
3. Give a detailed account of sterilization methods.
4. Discuss various methods of evaluation of disinfectants.
5.
  - a) Explain the principle of microbiological assays.
  - b) Describe the methods of standardization of vitamins.
6. Write a note on food spoilage and food preservation.
7. Attempt any two of the following :
  - a) Sewage treatment methods
  - b) Classification of bacteria
  - c) Factors affecting disinfection

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8. Write short notes on any four of the following:

- a) History of microbiology
- b) Sterility indicators
- c) Classification of viruses
- d) Laminar air flow
- e) Assessment of antibiotic activity

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