

Roll No

PY-304 (CBCS)**B.Pharm., III Semester (Non-PCI Scheme)**

Examination, December 2017

Choice Based Credit System (CBCS)**Pharmaceutical Microbiology***Time : Three Hours**Maximum Marks : 75*

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

1. Give morphological classification of bacteria. Explain bacterial growth curve.
2. What are the raw materials required for preparation of culture media for bacteria and fungi? Discuss methods used for isolation of pure culture.
3. a) Differentiate between Gram +ve and Gram -ve bacteria.
b) Write a note on acid fast staining.
4. Write short notes on:
 - a) Cultivation of bacteria
 - b) Transport and differential media

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5. Classify disinfectants. Write about various factors influencing the process of disinfection.
6. Classify clean area. Explain design of aseptic area with the help of a suitable diagram.
7. Discuss standardization of antibiotics.
8. Write short notes on (any two):
 - a) Sterility testing of pharmaceuticals
 - b) Factors affecting microbial spoilage of pharmaceuticals products.
 - c) Evaluation of microbial stability of formulations.
 - d) Application of cell cultures.
