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Total No. of Questions : 8] *[Total No. of Printed Pages : 2*

Roll No .....

PY-304-CBCS

B.Pharmacy III Semester (Non-PCI Scheme)

Examination, June 2020

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. a) Define microbiology. Write a note on history of microbiology.
   b) What is Bacteria? Give morphological classification of bacteria.

2. Explain the applications of phase microscopes in field of microbiology along with the details and importance of electron microscopy.

3. a) Give the classification and mode of action of disinfectants.
   b) Explain the factors influencing disinfection.

4. Give in detail the microbiological assay for vitamins and amino acids.

5. What are the applications of cell cultures in pharmaceutical industry and research?

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6. Mention the procedure for sterility testing of solids according to IP and USP.

7. What is meant by aseptic, give an exhaustive note on designing of aseptic area?

8. Write short notes on any three:
   a) Methods of sterilization
   b) Difference between prokaryotes and eukaryotes
   c) Evaluation of bactericidal
   d) Culture media

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