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**Roll No** .....

# PY-304 (GS)

## **B.Pharmacy III Semester** Examination, June 2020

## Grading System (GS)

## Pharmaceutical Microbiology

***Time : Three Hours***

***Maximum Marks : 70***

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

1. Define and classify *viruses*; describe in detail about viral multiplication cycle in host.

2. Describe the working of the 'Light Microscopy' and 'Electron Microscopy' in detail.

3. Differentiate between aerobic, anaerobic and microaerophilic bacteria.

4. Name various structures present in a bacterial cell using a labelled diagram. Discuss pili and spores.

5. What are the different factors influencing infection? Explain body defense mechanisms.

6. What are the mechanisms of bacterial variation by horizontal transfer of genetic material? Describe the role of plasmids and transposable elements in the spread of antibiotic resistance and pathogenicity determinants.

7. Discuss nutritional requirements and raw materials used in preparation of culture media for growth of bacteria.

   OR

   Define the process of sterilization. Discuss various methods of sterilization with their applications.

8. Write notes on: (any two)
   a) Scope of microbiology
   b) Sterility testing
   c) Sewage and its disposal

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