Seat No:	Enrollment No:

PARUL UNIVERSITY FACULTY OF PHARMACY

B.Pharm. Summer 2018-19 Examination

Semester: 4 Date: 05/04/2019

Subject Code: 08101253 Time: 2:00 PM to 5:00 PM

Subject Name: Pharmaceutical Microbiology Total Marks: 75

Instructions:

- 1. Figures to the right indicate full marks.
- 2. Make suitable assumptions wherever necessary.

Q.1 Essay type Questions. (Any 2 out of 3) (10 marks each)

(20)

- 1. Define: Disinfection. Describe various factors affecting selection of disinfection. Classify disinfectant and explain in detail disinfection with ethylene oxide.
- 2. Define: Sterility test. Write principle of sterility test and describe in detail total count.
- 3. Define: Immunity. Describe types of immunity and explain in detail antigen-antibody reaction with its application.

Q.2 Short Essay type Questions. (Any 7 out of 9) (5 marks each)

(35)

- 1. Write a note on virus with its classification.
- 2. Describe factors affecting on sterilization.
- 3. Write a note on microbial taxonomy of spirochetes.
- 4. Define: Microbiology. Write its scope and application in pharmacy.
- 5. Describe in detail sterility tests for oil and oily solutions.
- 6. Describe in detail: Gram staining.
- 7. Explain in detail Pasturisation method for sterilization.
- 8. Write a note on bacteria with its classification.
- 9. Describe in detail: Bacterial growth curve.

Q.3 Answer in short. (2 marks each)

(20)

- 1. Define: 1) Mesophiles 2) Halophilic
- 2. Write a short note on hypersensitivity.
- 3. Comment:
 - 1) All pink colour bacteria are gram negative after gram staining.
 - 2) Acidic dye repels the cells of microorganism.
- 4. Differentiate: Capsule and Spore.
- 5. Explain vaccine bath sterilization.
- 6. Explain rideal walker test for evaluation of disinfection.
- 7. Give applications of glutaraldehyde for disinfection.
- 8. Define: 1) Zone of inhibition 2) Zone of exhibition
- 9. Describe organs of immune system.
- 10. Define: Bacteriophages. Give its structure.