

Seat No: \_\_\_\_\_

Enrollment No: \_\_\_\_\_

**PARUL UNIVERSITY**  
**FACULTY OF NURSING**  
**B.Sc. Nursing (Basic), August– 2019 Examination**

**Year: 1**

**Subject Code:09101105**

**Subject Name: Microbiology**

**Date: 14/08/2019**

**Time: 10:00am to 1:00pm**

**Total Marks: 75**

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**Instructions:**

1. Attempt all questions from each section.
2. Figures to the right indicate full marks.
3. Draw diagrams wherever necessary.
4. Write section-A, section-B on separate answer sheets.

**SECTION A (37 MARKS)**

**Q-1 Long Essays (Any one out of two) (1x 10) (10)**

1. Define immunity. Discuss types of immunity
2. What is precipitation reaction? Explain Lattice hypothesis, precipitation curve and different precipitation reaction in detail

**Q-2 Short Essays (Any three out of six) (3 x 5) (15)**

1. Immunization schedule
2. Explain type I Hypersensitivity reaction
3. Chain of infection
4. Autoclaving
5. ELISA test
6. Nosocomial infection

**Q-3 Short Answers (6 x 2) (12)**

1. Robert Koch
2. Define infection
3. Define Colonization
4. Define motility
5. Enumerate four killed vaccines
6. Steps of Hand washing

**SECTION B (38 MARKS)**

**Q-1 Long Essays (Any one out of two) (1x 10) (10)**

1. Define sterilization, Explain in detail about Dry heat sterilization
2. Classify bacteria according to their morphology

**Q-2 Short Essays (Any four out of seven) (4 x 5) (20)**

1. Different staining techniques
2. Biomedical waste management
3. Electronic microscope
4. Scope of microbiology in Nursing
5. Explain standard safety measures
6. Bacterial growth curve
7. Bacterial cell wall

**Q-3 Short Answers (4 x 2) (08)**

1. Define Microbiology
2. Define Agglutination
3. AFB
4. UTI