



NH-21265

Seat No. _____

First Year B. Sc. (Basic Nursing) Examination

January – 2017

Microbiology

Time : 3 Hours]

[Total Marks : 75

- Instructions :**
- (1) No. to the right side indicates marks.
 - (2) Write answers to the point.
 - (3) Attempt part of a question at one place.
 - (4) Draw diagram wherever it's necessary.

SECTION - I (38 Marks)

- 1** Long essay : (any one out of two) **1×15=15**
- (1) (a) Define and classify microbes. **5**
 - (b) Describe growth and nutrition of microorganism. **10**
- OR**
- (2) (a) Define Ag-Ab reaction. **2**
 - (b) List down purposes and uses of Ag-Ab reaction. **3**
 - (c) Explain hypersensitivity reaction. **10**
- 2** Short essay : (any three out of five) **3×5=15**
- (1) Bio medial waste management
 - (2) Gram staining
 - (3) Flagella
 - (4) Koch's postulates
 - (5) Infection cycle

- 3** Short answers : (any four out of six) **4×2=8**
- (1) Fimbria
 - (2) Bacterial spore
 - (3) Flocculation
 - (4) Blood agar
 - (5) Immunoglobulin
 - (6) List down liquid culture media.

SECTION - II (37 Marks)

- 1** Long essay : (any one out of two) **1×10=10**
- (1) (a) Define and explain methods of sterilization. **7**
(b) Explain in detail about autoclave. **3**
 - (2) (a) Define immunity. **2**
(b) Describe the classification of immunity in detail. **8**
- 2** Short essay : (any three out of five) **3×5=15**
- (1) Principles of microbiology
 - (2) Life cycle and pathogenesis of hook worm
 - (3) ELISA test
 - (4) Importance of microbiology in nursing
 - (5) Immunization schedule.
- 3** Short answers : (compulsory) **6×2=12**
- (1) Deep mycosis
 - (2) List down four gram positive bacteria
 - (3) Cysticercosis
 - (4) Widal test
 - (5) Diagnosis-PUO
 - (6) Antibiotic resistances.