

Reg. No: .....

**First Year B.Sc Nursing Degree Supplementary Examinations  
November 2017****NUTRITION AND BIOCHEMISTRY****(2010 Scheme)****Time: 3 Hours****Maximum Marks: 75**

- Answer all questions
- Write section A (52 Pages) and section B (32 Pages) in separate answer books. Do not mix up questions from section A and section B.

**Q P Code: 104010****Section A – NUTRITION****Marks: 50****Essay****(10)**

1. Explain protein under the following headings:

- Digestion
- Sources
- Functions
- Deficiencies

**Short notes****(5x5=25)**

2. Classification of carbohydrate
3. Vitamin D deficiency diseases
4. Define and classify BMI
5. Explain methods of cooking
6. Plan and Discuss a Diet for an Adolescent Girl

**Answer Briefly****(5x3=15)**

7. Basic concepts of nutrition
8. How human body regulate water balance
9. Importance of fat in our daily life
10. Classification of Foods
11. NIPCCD

**Q P Code: 105010****Section B – BIOCHEMISTRY****Marks:25****Essay****(10)**

1. Discuss the digestion and absorption of carbohydrates. Add a note on the metabolic disorders associated with carbohydrate digestion. ((3+4+3).)

**Short notes****(2x5=10)**

2. Atherosclerosis
3. Plasma Protein

**Define the following****(5x1=5)**

4. Jaundice.
5. Essential amino acids.
6. Obesity.
7. Gluconeogenesis.
8. Metabolic acidosis