

**First Year B.Sc Nursing Degree Examinations, October 2014****NUTRITION AND BIOCHEMISTRY****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 the national programs related to nutrition in detail.

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

2. Water balance.
3. Functions of carbohydrates.
4. Functions of vitamin D.
5. Discuss the importance of nutrition during adolescence period.
6. Food additives and food adulteration.

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

7. Uses of five food group system
8. Define basal metabolic rate. Mention any two factors affecting BMR.
9. Food preservation.
10. Types of menus
11. Prevention of food adulteration act.

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

1. Name the ketone bodies. Explain how ketone bodies are synthesized and utilized in our body. Add a note on diabetic ketoacidosis.

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

2. Digestion of carbohydrate.
3. Phenyl ketonuria

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

4. Hyperglycemia
5. Pellagra.
6. Fructosuria.
7. Jaundice
8. Enzymes.

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