

**First Year B.Sc Nursing Degree Supplementary Examinations, June 2016****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. List down the principles of meal planning and plan a day's menu for an expectant woman.

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

2. Protein energy malnutrition
3. Basal metabolic rate
4. Food additives and food adulteration
5. National nutritional program
6. Vitamin D deficiency

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

7. List down the functions of calcium
8. Role of dietary fiber
9. Mention examples for food prepared by shallow frying
10. Classification of carbohydrates
11. Calorific value of nutrients

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

1. Mention normal fasting blood glucose level and explain how it is regulated.

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

2. How lipids are digested and absorbed from the body
3. Explain daily allowance, dietary source, biochemical features and deficiency manifestations of vitamin A.

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

4. Phenyl ketonuria
5. Hypo proteinemia
6. Biochemical functions of copper
7. Metabolic alkalosis
8. Serum transaminases.

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