



Reg. No: .....

**First Year B.Sc Nursing Degree Examinations October 2018****Nutrition and Biochemistry****(2016 Scheme)****Time: 3 Hours****Max Marks: 75**

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

**Q P Code: 114010****Section A – Nutrition****Marks: 50****Short Essay****(2x7=14)**

1. Explain the nutritional problems in India
2. Explain the classification, digestion and deficiency manifestations of protein.

**Short Notes****(5x4=20)**

3. List the various methods of food preservation
4. Functions of carbohydrates
5. Prescribe a balanced diet for a preschool child.
6. Enumerate water balance and its regulation
7. Structure of Immunoglobulin.

**Answer Briefly****(4x4=16)**

8. Body mass index (BMI)
9. FAO
10. Sources of vitamin B<sub>1</sub>
11. Classification of minerals.

**Q P Code: 115010****Section B – Biochemistry****Marks: 25****Short Essays****(2x5=10)**

1. Enumerate the enzymes used to assess hepatic injury.
2. Discuss the biochemical role of thiamine

**Short notes****(2x3=6)**

3. Plasma buffers.
4. Functions of plasma protein

**Answer briefly****(3x3=9)**

5. Hypoglycemia and hyperglycemia
6. Diabetic ketoacidosis and starvation ketoacidosis
7. Ig M and Ig A

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