

**First Year B.Sc Nursing Degree Supplementary Examinations**  
**May (November), 2020**

**Nutrition and Biochemistry**

**(2016 Scheme)**

**Time: 3 Hours**

**Max Marks: 75**

- *Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space*
- *Answer all parts of a single question together • Leave sufficient space between answers*
- *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 digestion and absorption of carbohydrates. List the functions and characteristics of carbohydrates
2. Write methods of nutritional assessment and role of nurse in nutrition education

**Short Notes**

**(5x4=20)**

3. Scurvy
4. Plan a menu for pregnant women
5. Anthropometric measurement
6. Principles of cooking and serving
7. Mid-day meal programme

**Answer Briefly**

**(4x4=16)**

8. Sources of iron
9. Enumerate water balance and its regulation
10. Food groups by ICMR
11. Factors affecting BMR

**Q P Code: 115010**

**Section B – Biochemistry**

**Marks: 25**

**Short Essays**

**(2x5=10)**

1. Discuss the transport mechanisms across the cell membrane.
2. Classification and biological importance of carbohydrates

**Short notes**

**(2x3=6)**

3. Ketogenesis
4. Blood buffers

**Differentiate Between**

**(3x3=9)**

5. Metabolic acidosis and metabolic alkalosis
6. Prehepatic jaundice and obstructive jaundice
7. Saturated fatty acids and unsaturated fatty acids

\*\*\*\*\*