

**First Year B.Sc Nursing Degree Regular/Supplementary Examinations**  
**October 2019**  
**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 classification, functions and digestion of fat.
2. What is food preservation ? Explain different methods of food preservation.

**Short Notes**

**(5x4=20)**

3. Pellagra
4. Function of protein
5. Calcium deficiency
6. Factors affecting food and Nutrition"
7. Principles of Menu Planning

**Answer Briefly**

**(4x4=16)**

8. Nutritional problems in India
9. Role of fiber
10. Vitamin A prophylaxis programme
11. Menu plan for a sedentary diabetic patient

**Q P Code: 115010**

**Section B – Biochemistry**

**Marks: 25**

**Short Essays**

**(2x5=10)**

1. What are the sources of ammonia. How ammonia is detoxified
2. Discuss the biochemical functions and deficiency manifestations of vitamin C

**Short notes**

**(2x3=6)**

3. Structure and functions of mitochondria.
4. What is the normal blood glucose level and how it is regulated

**Differentiate Between**

**(3x3=9)**

5. Respiratory acidosis and respiratory alkalosis
6. Simple lipids and compound lipids
7. Glucogenic amino acids and ketogenic amino acids

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