

**B.Sc.(N) [1<sup>st</sup> Year]**  
**BF/2019/08**  
**Nutrition & Biochemistry**  
 [New Scheme w.e.f. 2006]

**Time : 3 Hours**

**Max Marks : 75**

- Note: 1. Attempt all questions.  
 2. USE SEPARATE ANSWER BOOK FOR EACH PART.  
 3. The Student must write separate Q.P. Code in the space provided on the title Page of the respective Answer Book.

**SECTION-A** **[45 Marks]**  
**[NUTRITION]**

**Q.P Code: BNN103**

1. (a) Food Groups [2]  
 (b) National Nutrition Policy [4]  
 (c) Breast Feeding and its nutritional significance [4]
  
2. (a) Define caloric value of Carbohydrates [2]  
 (b) Classify Lipids with example and explain vegetable and non vegetable sources of Lipids. [4]  
 (c) Explain digestion and absorption of Proteins. [4]
  
3. (a) Enlist essential and non essential Amino Acids. [2]  
 (b) Define Balanced Diet and plan diet chart of a Diabetic patient. [4]  
 (c) Explain the methods of Food Preservation. [4]
  
4. **Write Short Notes on any THREE of the following:** **[3x5=15]**
  - (a) Hypokalemia (b) Prevention of Food Adulteration Act
  - (c) Vitamin D Supplementation (d) Nutrition Education and Role of Nurse in it
  - (e) Hypervitaminosis

**SECTION-B** **[30 Marks]**  
**[BIOCHEMISTRY]**

**Q.P Code: BNN104**

1. (i) (a) Define Lipids. Write the uses of Fatty Acids of different types. [5]  
 (b) Discuss briefly breakdown and synthesis of Fatty Acids [5]
  
- OR**
- (ii) (a) Explain the structure composition and uses of Monosaccharides. [5]  
 (b) Describe the regulation of Blood Sugar Level. [5]
  
2. (a) Differentiate between Prokaryote and Eukaryote Cell. [3]  
 (b) Explain briefly about Sodium Pump. [2]
  
3. **Write Short Notes on any FOUR of the following:** **[3x5=15]**
  - (a) Antioxidants (b) Urea Cycle
  - (c) Polysaccharides (d) LDL & HDL
  - (e) Pentose Phosphate Pathway (f) Functions of Vitamin B & C
  - (g) Keratin