

## B.Sc.(N) [1<sup>st</sup> Year]

BF/2020/11

### 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 O.P. Code in the space provided on the Title Page of the respective Answer Book.*

#### SECTION-A

**[45 Marks]**

**QP Code: BNN103**

**[NUTRITION]**

1. (a) What is Scurvy. [2]  
 (b) Dietary source of various types of vitamins [4]  
 (c) Affect of dehydration [4]
  
2. (a) Water intoxication [2]  
 (b) Water regulation in Human body [4]  
 (c) Prevention of Food Adulteration Act (PFA) [4]
  
3. (a) Define One kilo calorie. [2]  
 (b) Diet menu of antenatal mother [4]  
 (c) Central food technology and research institute [4]
  
4. **Write Short Notes on any THREE of the following :** [3x5=15]
  - (a) Source of protein
  - (b) Body building foods
  - (c) Protective foods
  - (d) Role of nurse in prevention in anemia
  - (e) Vitamin E

#### SECTION-B

**[30 Marks]**

**QP Code: BNN104**

**[BIOCHEMISTRY]**

1. (i) (a) Explain the classification of Lipids with suitable examples. [5]  
 (b) Discuss the steps of the Hexose Monophosphate (HMP) Shunt pathways. What is its significance? [5]

**OR**

- (ii) (a) Describe briefly about Enzyme kinetics and factors affecting the enzyme activity. [5]  
 (b) Write about the Urea cycle and its regulation. [5]
  
2. Give the structure and classification of Immunoglobulins. [5]
  
3. **Write Short Notes on any FIVE of the following :** [3x5=15]
  - (a) Active transport mechanism
  - (b) Chromatography
  - (c) Prostaglandins
  - (d) Structure and function of Mitochondria of Cell
  - (e) Lens protein
  - (f) Protein targeting
  - (g) Disaccharides