

B.Sc.(N) [1st Year]
BF/2022/05
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) Define Balanced diet. [2]
(b) Explain the Macro-elements of Nutrition. [5]
(c) Factors affecting Food choices and Nutrition. [3]
2. (a) Define Therapeutic diet. [2]
(b) Enumerate the Nutritional problem in India. [3]
(c) Discuss Nurses' role in Nutrition education. [5]
3. (a) Write the unit and formula for Body Mass Index Calculation. [2]
(b) Explain principles of Cooking. [4]
(c) Discuss the parameters of Nutritional assessment. [4]
4. **Write Short Notes on any THREE of the following :** [3x5=15]
 - (a) Hypervitaminosis
 - (b) Protein energy mal nutrition
 - (c) Prevention of food adulteration
 - (d) Nutritional needs of an infant
 - (e) National nutritional policy

SECTION-B

[30 Marks]

QP Code: BNN104

[BIOCHEMISTRY]

1. (i) (a) Describe the Pentose phosphate pathway of glucose metabolism giving names of enzymes and coenzymes involved. [5]
(b) Describe absorption of Calcium in the body. Also explain how serum calcium level is regulated. [5]
 - OR**
 - (ii) (a) Give an account of chemistry, functions and deficiency manifestations of Vitamin B₁₂. [5]
(b) Describe the importance of Serum enzymes in the diagnosis of disease. [5]
 2. Explain the Regulation of Cholesterol biosynthesis. [5]
 3. **Write Short Notes on any FIVE of the following :** [3x5=15]
 - (a) Essential fatty acid
 - (b) PUFA (Polyunsaturated fatty acids)
 - (c) Krebs- Henseleit cycle
 - (d) Refsum's disease
 - (e) Hinge region
 - (f) Electrophoresis
 - (g) Iso enzymes
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