

**First BASIC B.Sc. (Nursing) Examination, Summer - 2024**  
**Phase - II**  
**NUTRITION AND BIOCHEMISTRY**

Total Duration : 3 Hours

Total Marks : 75

- Instructions :**
- 1) Use **black ball point pen only.**
  - 2) **Do not write anything on the blank portion of the question paper. If written anything, such type of act will be considered as an attempt to resort to unfair means.**
  - 3) **All questions are compulsory.**
  - 4) **The number to the right indicates full marks.**
  - 5) **Draw diagrams wherever necessary.**
  - 6) **Distribution of syllabus in Question Paper is only meant to cover entire syllabus within the stipulated frame. The Question paper pattern is a mere guideline. Questions can be asked from any paper's syllabus into any question paper. Students cannot claim that the Question is out of syllabus. As it is only for the placement sake, the distribution has been done.**
  - 7) **Use a common answerbook for all sections.**

**SECTION - A**

**(Nutrition)**

1. **Short Answer Questions (Solve any 5 out of 6) :** **[5 × 5 = 25]**
  - a) Classification of Food
  - b) Factors Affecting Basic Metabolic rate(BMR)
  - c) Vitamin A deficiency program
  - d) Function and sources of protein
  - e) Nurses Role in Nutrition education
  - f) Factors inhibiting and enhancing Iron absorption
  
2. **Long Answer Questions (Solve any 2 out of 3) :** **[2 × 5 = 10]**
  - a) 2 methods of cooking and describe its effect on nutritive value
  - b) Protein Energy Malnutrition
  - c) Dehydration and its Management

3. Short Answer Questions (Solve any 2 out of 3) :

[2 × 5 = 10]

- a) Factors affecting food selection
- b) List the methods of preservation and elaborate any one
- c) Distinguish between Macronutrients and Micronutrients

**SECTION - B**

**(Biochemistry)**

4. Short Answer Questions (Solve any 4 out of 5) :

[4 × 5 = 20]

- a) Explain essential fatty acids
- b) Describe process of digestion and absorption of amino acid
- c) Describe tests for detection of protein in urine
- d) Elaborate functions of plasma protein
- e) Discuss effect insulin on carbohydrate metabolism

5. Long Answer Questions (Solve any 1 out of 2) :

[1 × 10 = 10]

- a) Discuss aerobic glycolysis and its energetics.
- b) Write in detail about essential nutrients.

