

**First Basic B.Sc. (Nursing) Examination, (Phase - II) Winter - 2024**  
**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 (45 Marks)**  
**(Nutrition)**

1. **Short Answer Questions (Solve any 5 out of 6) :** **[5×5=25]**
  - a) Factors inhibiting and enhancing the Calcium absorption.
  - b) Distinguish between Food Adulteration and Food Additives.
  - f) Functions of Carbohydrate.
  - d) Nurses role in Mid Day meal Program.
  - e) Role of Nutrition in maintaining health of a preschooler.
  - f) Methods of cooking.
  
2. **Long Answer Questions (Solve any 2 out of 3) :** **[2×5=10]**
  - a) Classification of proteins and sources of protein.
  - b) Sources and deficiency diseases of Vitamin D.
  - c) Plan a diet for a girl aged 17 years, weighing 35 kg and suffering with anemia.

**3. Short Answer Questions (Solve any 2 out of 3) :****[2×5=10]**

- a) Composition of Body Fluids.
- b) Soft Diet.
- c) Body Mass Index and Caloric requirement.

**SECTION - B (30 Marks)****(Biochemistry)****4. Short Answer Questions (Solve any 4 out of 5) :****[4×5=20]**

- a) Write note on Lipoprotein and their functions.
- b) Explain Classification of carbohydrates.
- c) Difference between Prokaryotes and Eukaryotes.
- d) Describe Urea cycle.
- e) Mechanism of antibody production.

**5. Long Answer Questions (Solve any 1 out of 2) :****[1×10=10]**

- a) Describe structure and classification of Immunoglobins.

OR

- b) Explain metabolism of fatty acids.

