

First Basic B.Sc. Nursing Examination, Winter - 2023 (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 answer book for all sections.**

SECTION "A"

Nutrition

Q1) Short Answer Questions (Solve any 5 Out of 6):

[5 × 5 = 25]

- a) Factors influencing the food selection.
- b) Deficiency and Excess of Fat in diet
- c) Different methods of cooking
- d) Deficiency of Iron.
- e) Deficiency of Vitamin A.
- f) Mid day meal programme

Q2) Long Answer Questions(Solve any 2 Out of 3) : [2 × 5 = 10]

- Discuss food adulteration, describe the importance of Food Adulteration Act
- Define Malnutrition. Discuss the difference between Kwashiorkor and marasmus
- Enlist the nutrition programme and role of nurse in nutrition programme

Q3) Short Answer Questions (Solve any 2 Out of 3): [2 × 5 = 10]

- Define electrolyte imbalance and its effect on human body.
- Discuss balance diet. Describe the steps involved in planning diet.
- Discuss the importance of water soluble vitamins and preservation of water soluble vitamin during cooking.

SECTION "B"

Biochemistry

Q4) Short Answer Questions (Solve any 4 Out of 5) : [4 × 5 = 20]

- Function and deficiency manifestation of vitamin A.
- Define enzymes. Explain in details about factors affecting enzyme action.
- Protein Energy Malnutrition.
- Draw a neat label diagram of Cell and Discuss the functions of Cell membrane
- Glucose Tolerance Test.

Q5) Long Answer Questions(Solve any 1 Out of 2): [1 × 10 = 10]

- Describe urea cycle considering following points:
Need, Location, Reaction, Sequence and Energy required.

OR

- Explain steps of TCA cycle and Discuss energy production.

