

First Basic B.Sc. Nursing (Old) Examination, Winter - 2022
NUTRITION AND BIOCHEMISTRY

Total Duration : Section A + B = 3 Hours

Total Marks : 75

SECTION - A & SECTION - B

- Instructions :**
- 1) Use **blue/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 (**any five** out of six) : **[5×5=25]**
- a) Discuss classification of food.
 - b) Enlist the functions of carbohydrate.
 - c) Write a note on mid day meal programme.
 - d) Note on Rickets & its prevention.
 - e) Note on Composition of body fluids.
 - f) Classify vitamins & list the deficiency diseases of Vitamin A.

2. Long answer questions (**any two** out of three) : [2×5=10]
- Explain the various methods of food preservation.
 - Define Basal Metabolic Rate. Enlist the factors affecting Basal Metabolic Rate.
 - Food additives and its principles.
3. Short answer questions (**any two** out of three) : [2×5=10]
- Enlist deficiency diseases of calcium and its prevention.
 - Explain the classification of proteins.
 - Discuss the effects of overconsumption of fats.

SECTION - B (30 Marks)
(Biochemistry)

4. Short answer questions (**any four** out of five) : [4×5=20]
- Write about diagnostically important enzymes with their significance.
 - Note on Immunoglobulins and their functions.
 - Note on absorption and storage of Iron.
 - Competitive inhibition of enzymes with suitable examples.
 - Write biological function and deficiency manifestations of vitamin 'A'.
5. Long answer questions (**any one** out of two) : [1×10=10]
- Describe the fate and formation of Ammonia. Add a note on diagnostic significance of serum urea level.
 - Describe the pathway of gluconeogenesis and its importance.

