

First BASIC B.Sc. (Nursing) Examination, Summer - 2021
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) Different methods of food preservation.
 - b) What is mean by food standards and what is importance of it.
 - c) Importance of micro and macro nutritive elements for body.
 - d) National iodine deficiency disorders and its preventive measures.
 - e) Functions of Protein.
 - f) Factors affecting the fluid imbalance

2. Long answer questions (**any two** out of three) : **[2 × 5 = 10]**
- a) Factors influencing the food selection.
 - b) Causes and its management of Malnutrition.
 - c) Principles of cooking.
3. Short answer questions (**any two** out of three) : **[2 × 5 = 10]**
- a) Factors influencing the absorption of carbohydrate.
 - b) Iron deficiency anemia.
 - c) Discuss the Body mass index and its importance in Nutrition.

SECTION - B (30 Marks)

(Biochemistry)

4. Short answer questions (**any four** out of five) : **[4 × 5 = 20]**
- a) Enumerate various transport mechanism. Add note on active transport
 - b) Explain Functions of Trace elements
 - c) Describe regulation of Blood Glucose
 - d) PH buffers.
 - e) Explain Immunoglobulins
5. Long answer questions (**any one** out of two) : **[1 × 10 = 10]**
- a) Describe sources, recommended daily allowance, deficiency manifestation of Vitamin D
 - b) What is Collagen? How they are synthesized? Describe some abnormalities of collagen biosynthesis.

