

First Basic B.Sc. Nursing Examination, Summer (Phase - II) 2019
NUTRITION AND BIOCHEMISTRY

Total Duration : 3 Hours

Total Marks : 75

- 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) Describe the factors affecting nutrition.
 - b) Discuss classification of carbohydrates.
 - c) Explain the role of dietary fibers in human body.
 - d) Note on Kwashiorkor & its prevention.
 - e) Enlist essential amino acids.
 - f) Enlist sources and functions of potassium.

2. Long answer questions (**any two** out of three) : [2 × 5 = 10]
 - a) Explain the various methods of cooking.
 - b) Explain the deficiency disease associated with vitamin B1 (Thiamine).
 - c) Discuss role of nutrition in maintaining health of geriatric people.

3. Short answer questions (**any two** out of three) : [2 × 5 = 10]
 - a) Define dehydration and water intoxication.
 - b) Enlist the factors affecting iron absorption.
 - c) Enlist the functions of fat.

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SECTION - B (30 Marks)

(Biochemistry)

4. Short answer questions (**any four** out of five) : [4 × 5 = 20]
- a) Write Structure and Functions of Cell Membrane.
 - b) Give classification of Enzymes.
 - c) Discuss Acid Base Balance.
 - d) Give Types and Functions of Lipoproteins.
 - e) Write Functions and deficiency manifestations of Vitamin A.
5. Long answer questions (**any one** out of two) : [1 × 10 = 10]
- a) Describe the steps of Tricarboxylic acid (TCA) cycle
 - b) Describe the various steps of Urea Cycle and its importance.

