

**First BASIC B.Sc. Nursing Examination, Winter  
(Phase - III All Other Remaining UG/PG Course) - 2019  
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 answer book for all sections.

**SECTION - "A" (45 Marks)**

**(Nutrition)**

1. Short answer questions (any five out of six) : [5 × 5 = 25]
- a) Functions of food.
  - b) Vitamin A deficiency programme.
  - c) Assessment of nutritional status of pre-schooler.
  - d) Factors influencing food selection.
  - e) Principles of cooking.
  - f) Prevention of food adulteration Act (PFA).

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2. Long answer questions (any two out of three) : [2 × 5 = 10]
- a) Deficiencies of vitamin D and its Dietary sources.
  - b) Dietary sources and Functions of carbohydrates.
  - c) Factors affecting basal metabolic rate.
3. Short answer questions (any two out of three) : [2 × 5 = 10]
- a) National iodine deficiency disorders (IDD).
  - b) Nutrition education and role of nurse in adolescent Anemia.
  - c) Maintenance of fluid and electrolyte balance for toddler with Diarrhea.

**SECTION - "B" (30 Marks)**  
**(Biochemistry)**

4. Short answer questions (any four out of five) : [4 × 5 = 20]
- a) Transamination reactions.
  - b) Functions and Deficiency manifestations of Vitamin C.
  - c) Structure and Functions of Cell membrane.
  - d) Classification of Enzymes with suitable examples.
  - e) Functions and Deficiency manifestations of Iron.
5. Long answer questions (any one out of two): [1 × 10 = 10]
- a) Describe various steps of Glycolysis. Add a note on its Energetics.
  - b) Describe steps of Beta-oxidation of Fatty acids. Add a note on its energetics.

