62502

First Basic B.Sc. Nursing Examination, Winter 2018
NUTRITION AND BIOCHEMISTRY

Total Duration: Section A+B = 3 Hours | Total Marks : 75

SECTION – A and 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) Functions and absorption of fats.
   b) Principles of serving food.
   c) Body Mass Index.
   d) Kwashiorkor.
   e) Fluid Diet.
   f) Over hydration.

2. Long answer questions (**any two** out of three) : **(2×5=10)**
   a) Vitamin 'A' deficiency program.
   b) Write in brief about Energy.
   c) Importance of protein in children.

3. Short answer questions (**any two** out of three) : **(2×5=10)**
   a) Functions and deficiencies of Vitamin 'C'.
   b) Role of nurse in nutrition education.
   c) Digestion, absorption, storage and metabolism of carbohydrates.

SECTION – B **(30 marks)**
(Biochemistry)

4. Short answer questions (**any four** out of five) : **(4×5=20)**
   a) Structure and functions of Cell Membrane.
   b) Functions and deficiency manifestations of Vitamin D.
   c) Role of buffers in maintaining acid base balance.
   d) Functions of cholesterol.
   e) Competitive inhibition of enzymes.

5. Long answer questions (**any one** out of two) : **(1×10=10)**
   a) Describe Pentose Phosphate Pathway of Glucose oxidation. What is its Significance ?
   b) Describe steps of Urea cycle.