First Basic B.Sc. (Nursing) Examination, Winter 2016
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 question (**any five** out of six) : (5×5=25)

   a) Functional classification of proteins and write functions of proteins.

   b) Factors affecting food and nutrition.

   c) Principles and methods of cooking.

   d) Mid-day meal programme.

   e) Digestion of fat.

   f) Role of Nurse in Nutrition education.

2. Long answer question (**any two** out of three) : (2×5=10)

   a) Explain balance diet its important.

   b) State importance of vitamins in diet.

   c) Prepare a menu plan for diabetic patient.

3. Short answer question (**any two** out of three) : (2×5=10)

a) Food Adulteration Act.

b) Protein energy malnutrition.

c) Electrolyte imbalances and its effect.

SECTION – B (30 Marks)
(Biochemistry)

4. Short answer question (**any four** out of five) : (4×5=20)

a) Describe Urea cycle.

b) Write any four factors affecting enzyme activity.

c) Diagrammatic representation of immunoglobulins and state functions of IgG and IgM.

d) Enumerate various transport mechanisms. Add note on active transport.

e) Write five biochemical functions of calcium.

5. Long answer question (**any one** out of two) : (1×10=10)

a) Describe aerobic and anaerobic glycolysis with its energetics.

b) Describe beta-oxidation of palmitic acids with its energetics.

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