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62502

First Basic B.Sc. Nursing Examination, Summer 2018
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) Factors affecting calcium absorption.
 - b) Factors affecting Basal metabolic rate.
 - c) Assessment of nutritional status in children.
 - d) Classification of Carbohydrates.
 - e) Balanced diet.
 - f) Food Adulteration.

2. Long answer question (**any two** out of three) : (2×5=10)
 - a) Role of nurse in nutritional program.
 - b) Malnutrition.
 - c) Functions of Proteins.

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3. Short answer question (**any two** out of three) : (2×5=10)
- a) Functions of Vitamin D.
 - b) Regulations of water metabolism.
 - c) Methods of Cooking.

SECTION – B (30 Marks)
(Biochemistry)

4. Short answer question (**any four** out of five) : (4×5=20)
- a) Factors affecting absorption of Calcium.
 - b) Structure and functions of cell membrane.
 - c) Write a note on transamination and deamination reactions in protein metabolism.
 - d) Functions and deficiency manifestations of Vitamin C.
 - e) Factors regulating blood sugar level.
5. Long answer question (**any one** out of two) : (1×10=10)
- a) Describe in detail about beta oxidation of fatty acid. Add a note on its energetics.
 - b) Define enzymes. Explain in detail factors affecting enzyme action.