



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.

P.T.O.



3. Short answer question (any two out of three) :

(2×5=10)

- Functions of Vitamin D.
- Regulations of water metabolism.
- Methods of Cooking.

SECTION – B (30 Marks)
(Biochemistry)

4. Short answer question (any four out of five) :

(4×5=20)

- ~~Factors affecting absorption of Calcium.~~ *func of iron.*
- Structure and functions of cell membrane.
- Write a note on transamination and deamination reactions in protein metabolism.
- Functions and deficiency manifestations of Vitamin C.
- Factors regulating blood sugar level.

5. Long answer question (any one out of two) :

(1×10=10)

- Describe in detail about beta oxidation of fatty acid. Add a note on its energetics.
- Define enzymes. Explain in detail factors affecting enzyme action.

SECTION – A (45 Marks)

(Nutrition)

1. Short answer question (any five out of six) :

- Factors affecting calcium absorption.
- Factors affecting basal metabolic rate.
- Assessment of nutritional status in children.
- Classification of Carbohydrates.
- Balanced diet.
- Food Abundance.

2. Long answer question (any two out of three) :

- Role of nurse in nutritional program.
- Malnutrition.
- Functions of Proteins.



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

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 - 7) **Use** a common answerbook for **all** Sections.

SECTION – A (45 marks)

(Nutrition)

1. Short answer questions (**any five** out of six) : **(5x5=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) : **(2x5=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.



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 - 3) **All questions are compulsory.**
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 - 7) **Use a common answerbook for all Sections.**

SECTION – A (45 Marks)
(Nutrition)

1. Short answer question (any five out of six) : (5x5=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. ✓ 25

2. Long answer question (any two out of three) : (2x5=10)
 - a) Role of nurse in nutritional program. _____
 - b) Malnutrition. ✓
 - c) Functions of Proteins. ✓ 115

P.T.O.



3. Short answer question (any two out of three) :

(2x5=10)

- Functions of Vitamin D.
- Regulations of water metabolism.
- Methods of Cooking.

SECTION – B (30 Marks)
(Biochemistry)

4. Short answer question (any four out of five) :

(4x5=20)

- Factors affecting absorption of Calcium. — *Fun of Fe.*
- Structure and functions of cell membrane.
- Write a note on transamination and deamination reactions in protein metabolism.
- Functions and deficiency manifestations of Vitamin C.
- Factors regulating blood sugar level.

5. Long answer question (any one out of two) :

(1x10=10)

- Describe in detail about beta oxidation of fatty acid. Add a note on its energetics.
- Define enzymes. Explain in detail factors affecting enzyme action.

SECTION – A (45 Marks)

(Nutrition)

1. Short answer question (any five out of six) :

- Factors affecting calcium absorption.
- Factors affecting basal metabolic rate.
- Assessment of nutritional status in children.
- Classification of carbohydrates.
- Balanced diet.
- Food Fortification.

2. Long answer question (any two out of three) :

- Role of protein in nutritional program.
- Malnutrition.
- Functions of Proteins.



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24/11/17
First Basic B.Sc. Nursing Examination, Winter 2017
NUTRITION AND BIOCHEMISTRY

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 - 7) **Use a common answer book for all Sections.**

SECTION - A (45 Marks)

Nutrition

1. Short answer question (any five out of six) : (5x5=25)
 - a) Integrated Child Development Scheme (ICDS)
 - b) Classification of fats 100
 - c) Discuss principles of cooking.
 - d) Factors affecting iron absorption.
 - e) Weaning.
 - f) National Iodine Deficiency Disorder Programme.
2. Long answer question (any two out of three) : (2x5=10)
 - a) Define **malnutrition**. Describe the clinical features of severe protein energy malnutrition.
 - b) Describe the Classification and functions of fats 100, 103
 - c) Write classification of vitamins, functions and deficiency of **vitamin C**.

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3. Short answer questions (any two out of three) :

(2×5=10)

- a) **Food adulteration** and its prevention. ✓ 75-76
- b) Therapeutic diet for a patient with hypertension.
- c) Dietary management of patient with dehydration.

SECTION - B (30 marks)

Biochemistry

4. Short answer question (any four out of five) :

(4×5=20)

- a) Structure and functions of **Mitochondria**.
- b) Functions and deficiency manifestations of **Vitamin A**.
- c) Transamination reactions.
- d) Classification of Enzymes with suitable examples.
- e) Functions of **iron**.

5. Long answer question (any one out of two) :

(1×10=10)

- a) Describe regulation of Blood Sugar levels.
- b) Describe steps in beta oxidation of fatty acids.

Jurayal