



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.

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

SECTION – A (45 Marks)

**Nutrition**

1. Short answer question (**any five** out of six) : (5×5=25)
  - a) Integrated Child Development Scheme.(ICDS).
  - b) Classification of fats.
  - 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) : (2×5=10)
  - a) Define malnutrition. Describe the clinical features of severe protein energy malnutrition.
  - b) Describe the Classification and functions of fats.
  - 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.
- 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.
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**First Basic B.Sc. (Nursing) Examination, Winter 2016**  
**NUTRITION AND BIOCHEMISTRY**

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**SECTION – A & SECTION – B**

- Instructions :**
- 1) Use **blue/black** ball point pen **only**.
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  - 3) **All questions are compulsory**.
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  - 5) Draw diagrams **wherever** necessary.
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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) : **(5×5=25)**
  - ~~a)~~ Functional classification of proteins and write functions of proteins. 4
  - ~~b)~~ Factors affecting food and nutrition. 4
  - ~~c)~~ Principles and methods of cooking. 4
  - ~~d)~~ Mid-day meal programme. 4
  - e) Digestion of fat.
  - ~~f)~~ Role of Nurse in Nutrition education. 3
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. 3
  - ~~c)~~ Prepare a menu plan for diabetic patient. 3

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

(2×5=10)

- a) Food Adulteration Act. 3
- b) Protein energy malnutrition. 3
- 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. 3
- b) Write any four factors affecting enzyme activity. 2
- c) Diagrammatic representation of immunoglobulins and state functions of IgG and IgM. 2
- d) Enumerate various transport mechanisms. Add note on active transport.
- e) Write five biochemical functions of calcium. 2

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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Nutrition and Biochemistry

Total Duration: Section A+B = 3 Hours

Total Marks : 75

Section - A & Section - B

Instructions:

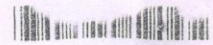
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- 7) Use a common answer book for **all** Sections.

Section-A (45 marks)

Nutrition

- 1: Short answer questions (**any five** out of six) : (5x5=25)
  - a) Discuss food adulteration. 3
  - b) Explain Mid day meal programme. 4
  - c) Discuss Micro and Macro nutrients.
  - d) Classification of Carbohydrate. 4
  - e) Explain factors affecting Basal Metabolic Rate. 4
  - f) Explain the functions of Vitamin D. 3
  
2. Long answer questions (**any two** out of three) : (2x5=10)
  - a) Discuss principles of Menu-planning. 4
  - b) Describe the effect of cooking on carbohydrates.
  - c) Explain the deficiency disorders of Vitamin A. 4
  
3. Short answer questions (**any two** out of three) : (2x5=10)
  - a) Explain the factors to be considered while serving food to the patient. 4
  - b) Explain factors affecting nutrition.
  - c) Discuss the use of heat for food preservation. 4

liquid liquid liquid



## Section-B (30 marks)

## • Biochemistry

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

(4 x5=20)

- a) Write diagnostic significance of enzymes. 3 2
- b) Write a note on essential fatty acids. 3 2
- c) Describe Cori's cycle.
- d) Enumerate fat soluble vitamins. Give an account of biochemical functions of Vitamin A.
- e) What are immunoglobulins? Give their types along with functions. 2

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

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(1x10=10)

- a) Describe oxidation of fatty acids with its energetics.
- b) Give sources and functions of calcium. Describe serum calcium regulation. /

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