62502

First Basic B.Sc. Nursing Examination, Summer 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. Student 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) Role of nutrition in maintaining health of geriatric client.
   b) Classification of foods.
   c) Difference between kwashoirkar and marasmus.
   d) Deficiency diseases of Iron and its rich dietary sources.
   e) Integrated Child Development Scheme (ICDS).
   f) Therapeutic purposes of Naturopathy - Diet.
2. Long answer question (**any two** out of three) : **(2×5=10)**
   a) Nutritional problems in India.
   b) Absorption, synthesis and metabolism of minerals.
   c) Principles of weaning and foods included.

P.T.O.

3. Short answer question (**any two** out of three) : **(2×5=10)**
   a) Safe food preparation practices.
   b) Role of nurse in nutritional education.
   c) Food additives and its principles.

SECTION – B **(30 Marks)**

(Biochemistry)

4. Short answer question (**any four** out of five) : **(4×5=20)**
   a) Classify carbohydrates with suitable example.
   b) Functions of proteins.
   c) Digestion and absorption of Lipids.
   d) Classify enzymes with suitable examples.
   e) Factors affecting calcium absorption.

5. Long answer question (**any one** out of two) : **(1×10=10)**
   a) Describe sources, biochemical functions and deficiency manifestation of Vitamin A.
   b) Explain in detail different types of buffers and role of buffers in maintaining acid base balance.

SECTION – C

Biochemistry

5. Answer the following (**any three** out of four) : **(3×5=15)**

   a) Structure and function of cholesterol.

   b) Polysaccharides.

   c) Competitive and feedback inhibition of enzyme.

   d) Lipoproteins.

6. Long answer question : **(1×10=10)**

   a) Describe glycolysis with energetics.

   OR

   b) Define protein. Classify proteins with suitable examples. Write functions of proteins.

62502

First Basic B.Sc. Nursing Examination, Winter 2012
NUTRITION AND BIOCHEMISTRY

Total Duration: Section A + B + C = 3 Hours | Section B & C Marks: 60

SECTION – B & SECTION – C

*Instructions: 1) **All** questions are **compulsory**.*
*2) The number to the **right** indicates **full** marks.*
*3) Draw diagrams **wherever** necessary.*
*4) **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.*

SECTION – B

Nutrition

2. Answer **any four** of the following : **(4×5=20)**

a) Effects of Vitamin A deficiency.

b) Importance of cooking and methods of cooking.

c) Digestion of Fat.

d) Factors to be considered while serving food to the patient.

e) Factors inhibiting and factors favouring calcium absorption.

3. Long answer question : **(2+2+3=7)**

What is first class Protein ?

State any two important functions of Protein.

Write the name of the deficiency disease due to lack of sufficient protein intake, the symptoms and the treatment to be given if the patient is a child.

4. Long answer question :

Define Basal Metabolic Rate (BMR). — 2

Explain any six factors that influence the Basal Metabolic Rate. 6

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P.T.O.

62502

First Basic B.Sc. Nursing Examination, Summer 2013
NUTRITION AND BIOCHEMISTRY

Total Duration: Section A + B + C = 3 Hours | Section B & C Marks: 60

SECTION – B & SECTION – C

*Instructions: 1) **All** questions are **compulsory**.*
*2) The number to the **right** indicates **full** marks.*
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SECTION – B
Nutrition

2. Answer the following (any four out of five) : (4×5=20)
   a) Factors affecting food and nutrition.
   b) Methods of cooking.
   c) Protein energy malnutrition.
   d) Functions of fat.
   e) Basal metabolic rate.

LAQ's

3. Define lipids its classification and function in detail. (1×7=7)

4. Enlist the nutritional programmes and role of nurse in nutritional programmes in detail. (1×8=8)

SECTION – C
Biochemistry

5. Answer the following (any 3 out of 4) : (3×5=15)
   a) What are lipoproteins ? Classify them and give their functions.
   b) Metabolic changes in diabetes mellitus.
   c) Protein-energy malnutrition.
   d) Principle and applications of electrophoresis.

6. Long answer question. (1×10=10)
   a) What are blood buffers ? Describe the factors maintaining acid-base balance in the body.

   OR

   b) Define enzymes. Classify enzymes and give one example of each class. Add a note on isoenzymes giving their clinical applications.

SECTION – C (25 Marks)

Biochemistry

5. Answer the following (any three out of four) : (3x5=15)

   a) Write any five functions of vitamin C.

   b) Write five factors affecting rate of enzyme catalysed reaction.

   c) Describe the fluid mosaic structure of cell membrane.

   d) Write functional classification of proteins with suitable example for each class.

6. a) Write a note on aerobic glycolysis and its energetics. (1x10=10)

   OR

   b) Describe the urea cycle. Explain its importance. (1x10=10)

62502

First Basic B.Sc. Nursing Examination, Summer 2014
NUTRITION AND BIOCHEMISTRY

Total Duration: Section A + B + C = 3 Hours | Section B & C Marks: 60

SECTION – B & SECTION – C

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*3) **All** questions are **compulsory**.*

*4) The number to the **right** indicates **full** marks.*

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

SECTION – B **(35 Marks)**

Nutrition

2. Answer the following (**any four** out of five) : **(4x5=20)**
   a) Mid day meal programme
   b) Functions and deficiency of Vitamin C
   c) Protein energy malnutrition
   d) Food preservation
   e) Basal Melabolic Rate.

3. Explain the classification, sources and functions of carbohydrates. **(1x7=7)**

4. Explain the role of nurse in nutritional programmes. **(1x8=8)**

P.T.O.

First BASIC B.Sc. NURSING, Winter 2015

Nutrition and Biochemistry

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

Section - A & Section - B

Instructions:

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3) **All** questions are **compulsory.**
4) The number to the right indicates **full** marks.
5) **Draw diagrams wherever** necessary.
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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.
   b) Explain Mid day meal programme.
   c) Discuss Micro and Macro nutrients.
   d) Classification of Carbohydrate.
   e) Explain factors affecting Basal Metabolic Rate.
   f) Explain the functions of Vitamin D.

2. Long answer questions (**any two** out of three) : **(2x5=10)**
   a) Discuss principles of Menu planning.
   b) Describe the effect of cooking on carbohydrates.
   c) Explain the deficiency disorders of Vitamin A.

3. Short answer questions (**any two** out of three) : **(2x5=10)**
   a) Explain the factors to be considered while serving food to the patient.
   b) Explain factors affecting nutrition.
   c) Discuss the use of heat for food preservation.

P.T.O.

62502

First Basic B.Sc. (Nursing) Examination, Summer 2015
NUTRITION AND BIOCHEMISTRY

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

SECTION – A & SECTION – B

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*3) **All** questions are **compulsory**.*

*4) The number to the **right** indicates **full** marks.*

*5) **Draw** diagrams **wherever** necessary.*

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*7) **Use** a common answer book for **all** Section.*

SECTION – A **(45 Marks)**

Nutrition

1. Short answer questions (**any five** out of six) : **(5×5=25)**

   a) Write the factors interfering in absorption of calcium.

   b) Methods of food preservation and storage.

   c) Describe the effect of deficiency of water and its management.

   d) Describe the effect of deficiency and excess of fat in diet.

   e) Classify minerals and write some general functions of minerals.

   f) Define food and classify.

P.T.O.

3. Short answer question (**any two** out of three) : (2x5=1

   a) Safe food preparation practices.

   b) Role of nurse in nutritional education.

   c) Food additives and its principles.

SECTION – B (30 Mark

(Biochemistry)

4. Short answer question (**any four** out of five) : (4x5=2

   a) Classify carbohydrates with suitable example.

   b) Functions of proteins.

   c) Digestion and absorption of Lipids.

   d) Classify enzymes with suitable examples.

   e) Factors affecting calcium absorption.

5. Long answer question (**any one** out of two) : (1x10=1

   a) Describe sources, biochemical functions and deficiency manifestation of Vitamin A.

   b) Explain in detail different types of buffers and role of buffers in maintaining acid base balance.

62502

First Basic B.Sc. Nursing Examination, Summer 2016
NUTRITION AND BIOCHEMISTRY

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

SECTION – A & SECTION – B

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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) Role of nutrition in maintaining health of geriatric client.
   b) Classification of foods.
   c) Difference between kwashoirkar and marasmus.
   d) Deficiency diseases of Iron and its rich dietary sources.
   e) Integrated Child Development Scheme (ICDS).
   f) Therapeutic purposes of Naturopathy - Diet.
2. Long answer question (**any two** out of three) : (2×5=10)
   a) Nutritional problems in India.
   b) Absorption, synthesis and metabolism of minerals.
   c) Principles of weaning and foods included.

P.T.O.

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.

62502

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

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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.
   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.

P.T.O.

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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First Basic B.Sc. (Nursing) Examination, Winter 2016
NUTRITION AND BIOCHEMISTRY

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

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SECTION – A **(45 Marks)**
(Nutrition)

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

P.T.O.

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

   a) Food Adulteration Act.

   b) Protein energy malnutrition.

   c) Electrolyte imbalances and ils 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.

62502

First Basic B.Sc. (Nursing) Examination, Winter 2016
NUTRITION AND BIOCHEMISTRY

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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.

P.T.O.

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

   a) Food Adulteration Act.

   b) Protein energy malnutrition.

   c) Electrolyte imbalances and ils 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.

62502

First Basic B.Sc. (Nursing) Examination, Winter 2016
NUTRITION AND BIOCHEMISTRY

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SECTION – A & SECTION – B

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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.

P.T.O.

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 bela oxidation of fatty acid. Add a note on its energetics.
   b) Define enzymes. Explain in detail factors affecting enzyme action.

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

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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) 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 questions (any two out of three) : (2×5=10)

   a) Prevention of Food Adulteration Act, 1954

   b) Define balanced diet and write the steps in planning balanced diet.

   c) Define BMR and write the factors affecting energy requirement

SECTION – B (30 Marks)

(Biochemistry)

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

   a) Write any five functions of cholesterol

   b) Draw urea cycle mentioning enzymes, coenzymes, substrate and product formed in the cycle

   c) Factors regulating blood calcium level.

   d) Diagnostic and clinical significance of enzymes.

   e) What are blood buffers ? Explain their role in maintaining blood pH

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

   a) Define and classify vitamins. Write sources, daily requirement, functions and deficiency manifestation of vitamin A.

   b) Define carbohydrate. Explain glycolysis in detail with its energetics

62502

First Basic B.Sc. Nursing Examination, Summer 2017
NUTRITION AND BIOCHEMISTRY

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

SECTION – A and SECTION – B

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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) : (5×5=25)
   a) Describe the deficiency diseases of vitamin D.
   b) Factors affecting food and nutrition.
   c) Composition of body fluids.
   d) Describe the functions of protein.
   e) Methods of cooking and effect of cooking on food constituents.
   f) Integrated Child Development Scheme.
2. Long answer questions (**any two** out of three) : (2×5=10)
   a) Define and classify fat.
   b) Write the sources and effect of deficiency of iron.
   c) List sources of thiamine and effect of its deficiency.

P.T.O.

(2×5=10)

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

(4×5=20)

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

(1×10=10)

5. Long answer question (**any one** out of two) :
   a) Describe regulation of Blood Sugar levels.
   b) Describe steps in beta oxidation of fatty acids.

62502

First Basic B.Sc. Nursing Examination, Winter 2017
NUTRITION AND BIOCHEMISTRY

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

SECTION – A & SECTION – B

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*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 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.

P.T.O.

First Basic B.Sc. Nursing Examination, May/June 2009
NUTRITION AND BIOCHEMISTRY

Total Duration : Section A + B + C = 3 Hours Section B & C Marks : 60

SECTION – B & SECTION – C

Instructions : *1) **All questions are compulsory.***

*2) The number to the **right** indicates **full marks.***

*3) **Draw** diagrams wherever **necessary.***

*4) 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.*

SECTION – B
(Nutrition)

2. Answer the following (**any four** out of five) **(4×5=20)**

   a) Classification of vitamins

   b) Functions of proteins

   c) Factors affecting BMR

   d) Principles of cooking

   e) Mid day meal programme.

3. Long answer question : **(1×7=7)**

   Classification, sources and functions of carbohydrate.

4. Long Answer question : **(1×8=8)**

   What is food preservation ? Write down the various methods used for preservation of food.

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SECTION – C

(Biochemistry)

5. Answer the following (any three out of four) (3×5=15)

a) Factors regulating plasma calcium level.

b) Give classification of lipoproteins and state their functions.

c) What are enzymes ? Classify enzymes and give one example of each class.

d) Nitrogen balance.

6. Long Answer question: (1×10=10)

a) Describe tricarboxylic acid cycle with energetics. State why this cycle is called amphibolic ?

OR

b) β - oxidation of palmitic acid with energetics.