First Basic B.Sc. Nursing (Old) Examination, Winter - 2022 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.
- 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):

 $[5\times5=25]$

- a) Discuss classification of food.
- b) Enlist the functions of carbohydrate.
- c) Write a note on mid day meal programme.
- d) Note on Rickets & its prevention.
- e) Note on Composition of body fluids.
- f) Classify vitamins & list the deficiency diseases of Vitamin A.

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

 $[2 \times 5 = 10]$

- a) Explain the various methods of food preservation.
- b) Define Basal Metabolic Rate. Enlist the factors affecting Basal Metabolic Rate.
- c) Food additives and its principles.
- 3. Short answer questions (any two out of three):

 $[2 \times 5 = 10]$

- a) Enlist deficiency diseases of calcium and its prevention.
- b) Explain the classification of proteins.
- c) Discuss the effects of overconsumption of fats.

SECTION - B (30 Marks) (Biochemistry)

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

 $[4 \times 5 = 20]$

- a) Write about diagnostically important enzymes with their significance.
- b) Note on Immunoglobulins and their functions.
- c) Note on absorption and storage of Iron.
- d) Competitive inhibition of enzymes with suitable examples.
- e) Write biological function and deficiency manifestations of vitamin 'A'.
- 5. Long answer questions (any one out of two):

 $[1 \times 10 = 10]$

- Describe the fate and formation of Ammonia. Add a note on diagnostic significance of serum urea level.
- b) Describe the pathway of gluconeogenesis and its importance.

HHH CONTROL OF THE STATE OF THE

First Basic B.Sc. Nursing Examination, (Phase - II) Summer - 2022 NUTRITION AND BIOCHEMISTRY

Total Duration: 3 Hours Total Marks: 75

Instructions: 1) Use blue/black ball point pen only.

- 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 answer book for all sections.

SECTION - "A"

(Nutrition)

1. Short Answer Questions (Solve any 5 Out of 6):

 $[5\times 5=25]$

- a) Discuss the factors affecting the nutrition.
- b) FAO.
- c) Functions of protein.
- d) Deficiency of Vitamin A.
- e) Methods of food preservation.
- f) Classification of food.
- 2. Long Answer Questions (Solve any 2 Out of 3):

 $[2\times 5=10]$

- a) Therapeutic diets.
- b) Vitamin A deficiency programme.
- c) Factors affecting BMR.

62502i

3. Short Answer Questions (Solve any 2 Out of 3):

 $[2\times 5=10]$

- a) Functions of Carbohydrate.
- b) Vitamin B complex.
- c) Dehydration and its sign and symptoms.

SECTION - "B"

(Biochemistry)

4. Short Answer Questions (Solve any 4 Out of 5):

 $[4 \times 5 = 20]$

- a) Write any five function of cholesterol.
- b) Explain factors affecting calcium absorption.
- c) Antioxidant.
- d) Discuss in brief about digestion and absorption of lipids.
- e) Explain clinical importance of Blood urea.

5. Long Answer Questions (Solve any 1 Out of 2):

 $[1 \times 10 = 10]$

a) Define Blood buffer. Explain in detail about different types of Blood buffer and role of buffers in maintaining acid base balance.

OR

b) Describe Glycolysis and Explain in detail about Reaction sequence, Location and Energy Generation.



First Basic B.Sc. Nursing Examination, (Phase - III) Winter - 2021 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.
 - 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):

 $[5 \times 5 = 25]$

- a) Discuss fat soluble Vitamins.
- b) Discuss Food additives.
- c) National nutritional policy in India.
- d) Discuss the classification of food.
- e) Discuss Principles of Cooking.
- f) Factors affecting the electrolyte imbalance.

P.T.O.

- 2. Long answer questions (any two out of three):
- $[2 \times 5 = 10]$
- a) Discuss in details about the protein energy malnutrition.
- b) Define therapeutic diet and its type.
- c) Discuss the Mid Meal Programme.

DAY

- 3. Short answer questions (any two out of three):
- $[2 \times 5 = 10]$
- a) Factors affecting the nutrition during illness.
- b) Define over hydration and causes of for same.
- c) Discuss about Vitamin C its sources and deficiency.

SECTION - B (30 Marks)

(Biochemistry)

- 4. Short answer questions (any four out of five):
- $[4 \times 5 = 20]$

- a) Functions of Vitamin C.
- b) Composition and functions of Cell.
- c) Factors affecting enzyme activities.
- d) Regulation of blood glucose level.
- e) Sources and Functions of Phoshporus.
- 5. Long answer questions (any one out of two):

 $[1 \times 10 = 10]$

- a) Discuss Cholesterol metabolism in detail.
- b) Give sources, daily requirement biochemical functions and deficiency manifestations of calcium.

图 图 图

First BASIC B.Sc. (Nursing) Examination, Summer - 2021 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.
- Do not write anything on the blank portion of the question paper. 2) 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.
- 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.
- Use a common answerbook for all Sections.

SECTION - A (45 Marks)

(Nutrition)

Short answer questions (any five out of six): $[5 \times 5 = 25]$

- Different methods of food preservation.
- What is mean by food standards and what is importance of it.
- Importance of micro and macro nutritive elements for body. c)
- National iodine deficiency disorders and its preventive measures. d)
- Functions of Protein. e)
- f) Factors affecting the fluid imbalance

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

 $[2\times 5=10]$

- a) Factors influencing the food selection.
- b) Causes and its management of Malnutrition.
- c) Principles of cooking.
- 3. Short answer questions (any two out of three):

 $[2 \times 5 = 10]$

- a) Factors influencing the absorption of carbohydrate.
- b) Iron deficiency anemia.
- c) Discuss the Body mass index and its importance in Nutrition.

SECTION - B (30 Marks)

(Biochemistry)

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

 $[4 \times 5 = 20]$

- a) Enumerate various transport mechanism. Add note on active transport
- b) Explain Functions of Trace elements
- c) Describe regulation of Blood Glucose
- d) PH buffers.
- e) Explain Immunoglobulins
- 5. Long answer questions (any one out of two):

 $[1\times10=10]$

- a) Describe sources, recommended daily allowance, deficiency manifestation of VitaminD
- b) What is Collagen? How they are synthesized? Describe some abnormalities of collagen biosynthesis.

...

First Basic B.Sc. Nursing Examination, Winter - 2020 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.
- Use a common answerbook for all sections.

SECTION - A (45 Marks)

(Nutrition)

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

 $[5\times 5=25]$

- a) Explain the factors affecting food and nutrition.
- b) Discuss the functions of proteins.
- c) Iron deficiency anemia.
- d) Explain role of a nurse in nutritional programme.
- e) Discuss factors affecting iron absorption.
- f) Classify lipids with examples. Write functions of lipids.

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

 $[2 \times 5 = 10]$

- a) Explain principles of cooking.
- b) Define carbohydrates and classify it with examples.
- c) Explain different methods of food preparation.
- 3. Short answer question (any two out of three):

 $[2\times 5=10]$

- a) Explain principles of weaning.
- b) Describe clinical features of severe protein energy malnutrition.
- c) Explain role of fibre in diet.

SECTION - B (30 Marks)

(Biochemistry)

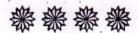
4. Long answer question (any four out of five):

 $[4 \times 5 = 20]$

- a) Describe deficiency manifestations of vitamin D.
- b) Write a note on homopolysaccharides.
- c) Describe regulation of blood calcium level.
- d) Describe hormonal regulation of water and electrolyte balance.
- e) Discuss nitrogen balance.
- 5. Long answer question (any one out of two):

 $[1\times 10=10]$

- a) Describe Tricarboxylic acid cycle. Write about its amphibolic nature.
- b) Define enzymes. Classify them giving examples. Add a note on clinical significance of enzymes in heart disease.





First BASIC B.Sc. Nursing Examination, Summer (Phase - III All other Remaining UG/PG Courses) - 2020 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.
- 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 answer book for all sections.

SECTION - A (45Marks) (NUTRITION)

1. Short answer questions (any five out of Six)

 $[5 \times 5 = 25]$

- a) Marasmus.
- b) Methods of cooking.
- c) Vitamin 'D' deficiency.
- d) Enumerate Food groups.
- e) Basal Metabolic Rate.
- f) National Nutritional Policy.

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

 $[2 \times 5 = 10]$

- a) Mid-Day meal program.
- b) Functions and absorption of calcium.
- c) Describe nutritional problems in India.

 $[2\times 5=10]$

- 3. Short answer questions (any two out of three):
 - a) Digestion of proteins.
 - b) Role of the nurse in nutritional programmes.
 - c) Write in short about the elements of nutrition.

SECTION - B (30 Marks)

(BIOCHEMISTRY)

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

 $[4 \times 5 = 20]$

- a) Define and classify enzymes.
- b) Lipoproteins and their functions.
- c) Functions, sources and deficiency manifestations of vitamin 'C'
- d) Digestion and absorption of fat.
- e) Maintenance acid base balance.
- 5. Long answer questions (any one out of two):

 $[1\times10=10]$

- Enumerate the pathway of glycolysis. Discuss its energetics. write a note on regulation of blood sugar.
- b) Describe functional classification of proteins with examples. Discuss the biosynthesis of urea and its biological significance.





Learning the time next trees tree interest treasure treated

62502

First BASIC B.Sc. Nursing Examination, Winter (Phase - III All Other Remaining UG/PG Course) - 2019 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.

- 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.
- 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 questions (any five out of six):

 $[5 \times 5 = 25]$

- a) Functions of food.
- b) Vitamin A deficiency programme.
- c) Assessment of nutritional status of pre-schooler.
- d) Factors influencing food selection.
- e) Principles of cooking.
- f) Prevention of food adulteration Act (PFA).

Long answer questions (any two out of three):

 $[2 \times 5 = 10]$

- Deficiencies of vitamin D and its Dietary sources.
- b) Dietary sources and Functions of carbohydrates.
- Factors affecting basal metabolic rate. c)
- Short answer questions (any two out of three): 3.

 $[2 \times 5 = 10]$

- National iodine deficiency disorders (IDD).
- b) Nutrition education and role of nurse in adolescent Anemia.
- Maintenance of fluid and electrolyte balance for toddler with Diarrhea. c)

SECTION - "B" (30 Marks) (Biochemistry)

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

 $[4 \times 5 = 20]$

- Transamination reactions.
- Functions and Deficiency manifestations of Vitamin C. b)
- Structure and Functions of Cell membrane.
- Classification of Enzymes with suitable examples. d)
- Functions and Deficiency manifestations of Iron. e)
- Long answer questions (any one out of two): $[1 \times 10 = 10]$

and the several material

services to ancientative us

Samuel Salid research Arthresis

northelas in common litrication of

1.2年的A. 16万元的特别是一个36年的A. 19

Target to taking femory nor to transports

- Describe various steps of Glycolysis. Add a note on its Energetics.
- b) Describe steps of Beta-oxidation of Fatty acids. Add a note on its energetics.



L. Direction of the Control of the C



First Basic B.Sc. Nursing Examination, Summer (Phase - II) 2019 NUTRITION AND BIOCHEMISTRY

Total Duration: 3 Hours

Total Marks: 75

- Use blue/black ball point pen only. Instructions: 1)
 - Do not write anything on the blank portion of the question paper. 2) 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.
 - Distribution of syllabus in Question Paper is only meant to cover 6) 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.
 - Use a common answerbook for all sections. 7)

SECTION - A (45 Marks)

(Nutrition)

Short answer questions (any five out of six):

Describe the factors affecting nutrition. a) . Discuss classification of carbohydrates.

b) Explain the role of dietary fibers in human body.

Note on Kwashiorkor & its prevention. (b)

Enlist essential amino acids. e)

Enlist sources and functions of potassium. f).

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

 $[2 \times 5 = 10]$

 $[5 \times 5 = 25]$

Explain the various methods of cooking.

- Explain the deficiency disease associated with vitamin B1 (Thiamine).
- c) Discuss role of nutrition in maintaining health of geriatric people.
- Short answer questions (any two out of three): 3.

 $[2 \times 5 = 10]$

- Define dehydration and water intoxication.
- Enlist the factors affecting iron absorption. b)
- Enlist the functions of fat.

C LIBRARY Ahmednegas

62502

される社会におりなる。自然は国際

SECTION - B (30 Marks)

(Biochemistry)

- 4. Short answer questions (any four out of five) : $[4 \times 5 = 20]$
 - a) Write Structure and Functions of Cell Membrane.
 - b) Give classification of Enzymes.
 - e) Discuss Acid Base Balance.
 - d). Give Types and Functions of Lipoproteins.

and the Selection of the second selection which were

- e) · Write Functions and deficiency manifestations of Vitamin A.
- 5. Long answer questions (any one out of two): $[1 \times 10 = 10]$
 - a) Describe the steps of Tricarboxylic acid (TCA) cycle
 - b) Describe the various steps of Urea Cycle and its importance.

 $\mathfrak{H}\mathfrak{H}$

onenthal winton

and the terminal property of the control of the con

in to about their extending a fin

and the series of the series o

gelevate to existe the town of cities to

Ston ar +66 questions (202 two our of districts) at 17 cline detection and water into an action

ours rare rest agreems securit et. mis ?

Apiant du den erogréfiación al sociated (estimation in its composition). O souse role or neutrinole in manantation lieux. Ot gamanto pasque





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):

 $(5 \times 5 = 25)$

- 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):

 $(2 \times 5 = 10)$

- a) Vitamin 'A' deficiency program.
- b) Write in brief about Energy.
- c) Importance of protein in children.

P.T.O.



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

 $(2 \times 5 = 10)$

- 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) :

 $(4 \times 5 = 20)$

- a) Structure and functions of Cell Membrane.
 - b) Functions and deficiency manifestations of Vitamin D.
 - c) Role of buffers in maintaining acid base balance.
 - Functions of cholesterol.
- e) Competitive inhibition of enzymes.

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

 $(1 \times 10 = 10)$

- a) Describe Pentose Phosphate Pathway of Glucose oxidation. What is its Significance?
- b) Describe steps of Urea cycle.

的1=07×11

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.
 - 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)

Short answer question (any five out of six) :

 $(5 \times 5 = 25)$

- a) Factors affecting calcium absorption.
- Factors affecting Basal metabolic rate.
- 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):

 $(2 \times 5 = 10)$

- a) Role of nurse in nutritional program.
- b) Malnutrition.
- c) Functions of Proteins.

P.T.O.

(5×5=25)

(@?=2x公)



Tetal Duration . Section A. H. B = 3 Hours

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

 $(2 \times 5 = 10)$

- a) Functions of Vitamin D.
- b) Regulations of water metabolism.
- c) Methods of Cooking.

SECTION – B (30 Marks) (Biochemistry)

Short answer question (any four out of five):

 $(4 \times 5 = 20)$

- 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):

 $(1 \times 10 = 10)$

- 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.

Short answer question (any five out of six)

at action a constitution about a second

c) Assessment of nutritional status in children.

Long answer question (any two out of three):

d) Classification of Carbohydrates.

e) Balanced diet.

i) Hood Adulteration.

a) Hole of nurse in nutritional program

notations (d

c) Functions of Proteins

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

Instructions: 1) Use blue/black ball point pen only.

- 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 answer book for all Sections.

SECTION - A (45 Marks)

Nutrition

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

 $(5 \times 5 = 25)$

- 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):

(2x5=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.



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

 $(2 \times 5 = 10)$

- 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):

 $(4 \times 5 = 20)$

- 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):

 $(1 \times 10 = 10)$

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





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

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)

Short answer questions (any five out of six):

 $(5 \times 5 = 25)$

- 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):

 $(2 \times 5 = 10)$

- 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.

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

 $(2 \times 5 = 10)$

- 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):

 $(4 \times 5 = 20)$

- (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):

 $(1 \times 10 = 10)$

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

soft in the LA

加州之人,是一个是一个是为一种的

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



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.

- 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):

 $(5 \times 5 = 25)$

- 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):

- a) Explain balance diet its important.
- b) State importance of vitamins in diet.
- c) Prepare a menu plan for diabetic patient.

Reimautif

 $(2 \times 5 = 10)$

P.T.O.

12/2/

62502

(2×5=10)

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

 $(4 \times 5 = 20)$

- a) Describe Urea cycle.
- b) Write any four factors affecting enzyme activity.
- 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):

 $(1 \times 10 = 10)$

- a) Describe aerobic and anaerobic glycolysis with its energetics.
- b) Describe beta-oxidation of palmitic acids with its energetics.



tnelleg bliedsibackar



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. 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)

Short answer question (any five out of six):

 $(5 \times 5 = 25)$

- 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).
- Therapeutic purposes of Naturopathy Diet.

Long answer question (any two out of three):

 $(2 \times 5 = 10)$

- a) Nutritional problems in India.
- b) Absorption, synthesis and metabolism of minerals.
- c) Principles of weaning and foods included.

P.T.O.



(2×5=1

- 3. Short answer ques tion (any two out of three):
 - 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):

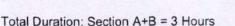
(1×10=1(

- 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.



First BASIC B.Sc. NURSING, Winter 2015 Nutrition and Biochemistry

Total Marks : 75



Section - A & Section - B

Instructions:

- 1) Use blue/black ball point pen only.
- 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 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.



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



 $(2 \times 5 = 10)$

SECTION - B

(30 Marks)

(Biochemistry)

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

 $(4 \times 5 = 20)$

- b) Functions of proteins.
- c) Digestion and absorption of Lipids.
- d) Classify enzymes with suitable examples.

a). Classify carbohydrates with suitable example.

- e) Factors affecting calcium absorption.
- 5. Long answer question (any one out of two):

 $(1 \times 10 = 10)$

- a) Describe sources, biochemical functions and deficiency manifestation of Vitamin A.
- Explain in detail different types of buffers and role of buffers in maintaining acid base balance.



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 to a 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):

 $(5 \times 5 = 25)$

- a) Role of nutrition in maintaining health of geriatric client.
- b) Classification of foods.
- 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):

 $(2 \times 5 = 10)$

- a) Nutritional problems in India.
- b) Absorption, synthesis and metabolism of minerals.
- c) Principles of weaning and foods included.

P.T.O.





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

- 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.
 - All questions are compulsory.
 - 4) The number to the right indicates full marks.
 - 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 Section.

SECTION - A (45 Marks)

Nutrition

Short answer questions (any five out of six) :

 $(5 \times 5 = 25)$

- 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.



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

Instructions: 1) Use blue/black ball point pen only.

Semon Fatted

- 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 answer book for all Sections.

SECTION - B

(35 Marks)

Nutrition

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 Metabolic 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.





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)



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.
- 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):

 $(4 \times 5 = 20)$

- 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.

 $(1 \times 7 = 7)$

4. Enlist the nutritional programmes and role of nurse in nutritional programmes in detail.

 $(1 \times 8 = 8)$

SECTION - C

Biochemistry

5. Answer the following (any 3 out of 4):

 $(3 \times 5 = 15)$

- 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.

Long answer question.

 $(1 \times 10 = 10)$

 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.

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

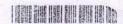
Answer any four of the following : $(4 \times 5 = 20)$ a) Effects of Vitamin A deficiency. b) Importance of cooking and methods of cooking. --Digestion of Fat. Factors to be considered while serving food to the patient. e) Factors inhibiting and factors favouring calcium absorption. -(2+2+3=7)Long answer question : 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

8





Biochemistry

5. Answer the following (any three out of four):	(3×5=15)
a) Structure and function of cholesterol.	
Polysaccharides	
Competitive and feedback inhibition of enzyme.	
(a) Lipoproteins.	
6. Long answer question :	(1×10=10)
a) Describe glycolysis with energetics.	, 5
OR .	
Define protein. Classify proteins with suitable examples. Write fur	nctions of proteins.

医医医医医

(0) (=0) (1)

First Basic B.Sc. Nursing Examination May/June 2009 NUTRITION AND BIOCHEMISTRY (mon to mo so all the sale and so wan A ...

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

SECTION -B & SECTION -C

Instructions: I) All questions are compulsory.

- 2) The number to the right indicates full marks. regonive (5)
- 3) Draw diagrams wherever necessary our our newark goot &
- 4) Do not write anything on the blank portion of the written anything, such type of act will be considered as an attempt to resort to unfair means.

SECTION # B is been of palitiment on nonchair of id (Nutrition)

2. Answer the following (any four out of five)

 $(4 \times 5 = 20)$

- a) Classification of vitamins
- b) Functions of proteins
- c) Factors affecting BMR
- d) Principles of cooking
- e) Mid day mean programme.
- 3. Long answer question:

 $(1 \times 7 = 7)$

Classification, sources and functions of carbohydrate.

4. Long Answer question:

 $(1 \times 8 = 8)$

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

SECTION-C

less Basic 8.50 Aurs (gustimensoid) ou, Mayi June 2009

5. Answer the following (any three out of four)

 $(3\times 5=15)$

- a) Factors regulating plasma calcium level. 1918 = 0 + 8 : Action 8 : Total Of Land Oct. 2818 10 9 8 incurs 8
 - 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 in retroiter, which sait of reds in earl 12
- 6. Long Answer question reversal reversely annual to the Comment of the Comment o $(1 \times 10 = 10)$ is the new were anything on the black portion of the
 - a) Describe tricarboxylic acid cycle with energetics. State why this cycle is called amphibolic? Prosess of identity the say peach, upo et the

OR

b) β- oxidation of palmitic acid with energetics?

(Mathitan)

(4x5=20)

Actives to thiowing (any four out off ve)

2) Cassification of vicanias

A THATtons of proteins

. It was a stocking BMIL.

d. Principles of popular

-) Midday awar orangamme.

3 in the vass of the scient

Classification, sources and fur crions of curbol parate

the congrammed Albandance

18-3×1

Colk!

the state and present that I will be a the serious methods used to present atten-

.G.T. T