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Second semester B.Sc. (Nursing) Examination, Summer - 2023
(Phase - III)

APPLIED BIOCHEMISTRY AND APPLIED NUTRITION & DIETETICS

Total Duration : Section A+B+C = 3 Hours

Section B & C Marks : 63

SECTION - B & SECTION - C

- Instructions :**
- 1) Use **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 answer book for section B & C.

SECTION "B"

(Applied Biochemistry)

- 2) Short Notes: (Any Three out of Four) [3 × 5 = 15]
 - a) Describe Glycolysis and explain brief about Reaction sequence and energy generation.
 - b) What are blood buffers and explain their role in maintaining blood pH.
 - c) Explain clinical importance of Blood urea.
 - d) Write a note on Electrophoresis.
- 3) Very Short Notes: (Any Three out of Four) [3 × 2 = 6]
 - a) Describe in brief about beta oxidation of fatty acids
 - b) Transamination reactions.
 - c) Properties of isoenzymes
 - d) Immunoglobulins.

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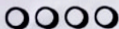
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SECTION "C"

(Applied Nutrition & Dietetics)

- 4) Essay/Situation Type Question : (Any One out of Two) [1×10=10]
- a) Enumerate major nutritional problems in India. Discuss the methods of nutritional education, Role of Community Health Nurse in implementation of nutritional programs in India.
 - b) Discuss the Principles of Menu planning. Explain the factors affecting menu planning, Prepare menu plan for diabetic client.
- 5) Short Notes: (Any Four out of Five) [4×5=20]
- a) Direct and indirect method of measuring energy.
 - b) Functions of Ascorbic Acid.
 - c) Classification of Lipids.
 - d) Explain in brief about National Nutritional Policy.
 - e) Explain the role of the food handlers in food borne diseases.
- 6) Very Short Notes: (Any Six out of Seven): [6×2=12]
- a) Types of food fortifications.
 - b) Functions of Riboflavin.
 - c) Functions of water.
 - d) Factors influencing food habits.
 - e) Enumerate Food Groups.
 - f) **Objectives of Midday Meal Programme.** (MDMP)
 - g) **Write the difference between Kwashiorkor and Marasmus.** (Any Four)



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Second Semester B.Sc. Nursing Examination, (Phase-III) Winter - 2023
APPLIED BIOCHEMISTRY & APPLIED NUTRITION & DIETETICS

Total Duration : Section A + B + C = 3 Hours

Section B & C Marks : 63

SECTION - B & SECTION - C

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 - 7) Use a common answerbook for section B & C.

SECTION-B

(Applied Biochemistry)

2. Short notes : (any three out of four)

[3×5=15]

- a) Explain Pentose Phosphate Pathway of Glucose oxidation.
- b) Write a note on transamination and deamination reactions in protein metabolism.
- c) Name lipoproteins and mention one functions of each. Add a brief note on atherosclerosis.
- d) Discuss factors regulating blood sugar level.

3. Very Short Notes : (any three out of four):

[3×2=6]

- a) Draw structure of immunoglobulins.
- b) Write a note on essential fatty acids.
- c) Enumerate types of jaundice.
- d) Give four examples of biologically important peptides.

SECTION-C

(Applied Nutrition & Dietetics)

4. Essay/Situation Type Question : (Any One out of Two)

[1×10=10]

- a) Define Balanced Diet? What are the elements of balanced diet? Discuss the role of fibers in balanced diet.
- b) Discuss the nutritional programmes in India. What are the methods of assessing the nutritional status of a child below five years? Explain the role of nurse in nutritional programmes in India.

5. Short Notes: (Any Four out of Five)

[4×5=20]

- a) Food Adulteration Act.
- b) Functions of Carbohydrate.
- c) Discuss the Aims of supplementary nutrition intake under I.C.D.S Scheme.
- d) Explain the Methods of food preservation.
- e) Discuss the factors affecting Basal Metabolic Rate.

6. Very Short Notes: (Any Six out of Seven):

[6×2=12]

- a) First Class Protein.
- b) Compositions of body fluid.
- c) Deficiency manifestations of water-soluble vitamins.(Any three)
- d) Body Mass Index.
- e) Bomb calorimeter.
- f) List down the clinical features of Marasmus.
- g) Micronutrients.



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**Second Semester B.Sc. (Nursing) Examination, Summer - 2024
Phase - II**

**APPLIED BIOCHEMISTRY AND APPLIED NUTRITION &
DIETETICS**

Total Duration : Section A+B+C = 3 Hours

Section B&C Marks : 63

SECTION - B & SECTION - C

- Instructions :**
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 - 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 the 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 B & C.*

SECTION - "B"

(Applied Biochemistry)

2. Short Notes (Any Three out of Four) : **[3 × 5 = 15]**

- a) Discuss in brief about digestion and absorption of lipids.
- b) Discuss types and functions of immunoglobulins.
- c) Classification of Enzymes with suitable examples.
- d) Explain cardiac cycle in detail.

Heart Cycle.

3. Very Short Notes : (Any Three out of Four) **[3 × 2 = 6]**

- a) Explain four factors affecting enzyme activities.
- b) Enumerate four products derived from cholesterol.
- c) What are the biochemical tests to assess renal function?
- d) Classification of proteins.

SECTION - "C"

(Applied Nutrition & Dietetics)

- 4. Essay / Situation Type Question : (Any One out of Two) [1 × 10 = 10]**
- a) Define Hypervitaminosis. Explain the various vitamin deficiency disorders. Discuss. Why vitamin D is essential for our body?
 - b) List down the nutrients that supply energy and the basic factors influencing the energy needs of the body.
- 5. Short Notes : (Any Four out of Five) [4 × 5 = 20]**
- a) Discuss monitoring and evaluation of ICDS programme.
 - b) Classification of lipids.
 - c) Discuss the dietary sources of protein.
 - d) Discuss factors affecting food and nutrition.
 - e) Explain Principles of Cooking.
- 6. Very Short Notes: (Any Six out of Seven) : [6 × 2 = 12]**
- a) Beriberi.
 - b) Therapeutic Diet.
 - c) Oral Rehydration Therapy.
 - d) Food Standards.
 - e) Macro elements of food.
 - f) Enumerate the methods Pasteurization.
 - g) Enlist the sources of Calcium.



Second Semester B.Sc. Nursing (2022) Examination,
(Phase - III) Winter - 2024

APPLIED BIOCHEMISTRY & APPLIED NUTRITION & DIETETICS

Total Duration : Section A + B + C = 3 Hours

Section B & C Marks : 63

SECTION - B & SECTION - C

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 - 7) Use a common answerbook for all Sections.

SECTION - B

(Applied Biochemistry)

2. Short Notes : (any 3 out of 4) **[3×5=15]**

- a) Urea Cycle.
- b) Explain briefly about Blood buffer.
- c) Hypoglycemia.
- d) Define protein & discuss function of plasma protein.

3. Very Short Notes : (any 3 out of 4) **[3×2=6]**

- a) Define Fatty acids and its classification.
- b) List down the Causes of proteinuria.
- c) Regulation of blood sugar.
- d) List down the types of Enzymes with suitable example.

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SECTION - C

(Applied Nutrition & Dietetics)

4. Essay / Situation type question : (any 1 out of 2) [1×10=10]
- a) Define food safety, State the principles of food safety and storage of food items.
 - b) i) Define nutritional assessment. Explain the methods of nutritional assessment.
 - ii) Write the role of nurse in nutritional assessment.
5. Short Notes: (any 4 out of 5) [4×5=20]
- a) Therapeutic Diet.
 - b) Describe about the Functions and absorptions of fat.
 - c) Iron deficiency anemia.
 - d) Principles of cooking.
 - e) Vitamin - A deficiency.
6. Very Short Notes : (any 6 out of 7) [6×2=12]
- a) Functions of protein.
 - b) Composition of body fluid.
 - c) Define Food guide and list any two basic guidelines.
 - d) Define ^{weaning}~~weaning~~ and list any three principles.
 - e) List down the sources of carbohydrate.
 - f) Define malnutrition and its types.
 - g) Enlist the various nutritional programme for under five children.

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SECOND SEMESTER B.Sc. NURSING EXAMINATIONS
APPLIED BIOCHEMISTRY & APPLIED NUTRITION & DIETETICS

Total Duration : 3 Hrs.

Total Marks : 75

Instruction: 1) Use **black** ball point pen only.

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- 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 – B (Applied Biochemistry)

2. Short Notes : (any 3 out of 4)

(3x5=15)

- a) Causes of proteinuria.
- b) Glucose tolerance test and its significance.
- c) Describe on investigations of Diabetes Mellitus.
- d) Lipoproteins.

3. Very Short Notes : (any 3 out of 4)

(3x2=6)

- a) What is Chylomicron.
- b) Write four functions of globulin.
- c) Name the essential amino acids.
- d) Define creatinine clearance test.

SECTION – C (Applied Nutrition & Dietetics)

4. Essay / Situation type question : (any 1 out of 2)

(1×10=10)

- a) Define Malnutrition? Discuss the classifications of Malnutrition.
- b) What is Food Adulteration? Discuss on prevention of Food Adulteration.

5. Short Notes : (any 4 out of 5)

(4×5=20)

- a) Write a note on Mid Day Meal Programme.
- b) Classify Vitamins and list the deficiency diseases of Vitamin A.
- c) Methods of Food Preservation.
- d) Write the classification of food with examples.
- e) Factors affecting Basal Metabolic Rate (BMR).

6. Very Short Notes : (any 6 out of 7)

(6×2=12)

- a) What is mean by food standards.
 - b) Four Functions of Protein.
 - c) What is Lipid.
 - d) Write down four functions of carbohydrate.
 - e) Define Dehydration.
 - f) Define Therapeutic Diet.
 - g) Write the sources of Vitamin C.
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SECOND SEMESTER B.Sc. NURSING EXAMINATIONS
APPLIED BIOCHEMISTRY & APPLIED NUTRITION & DIETETICS

Total Duration : 3 Hrs.

Total Marks : 75

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 - 7) Use a common answer book for all sections.

SECTION – B (Applied Biochemistry)

2. Short Notes : (any 3 out of 4) (3x5=15)
- a) Hormonal regulation of Blood glucose level.
 - b) ELISA
 - c) Lipid profile and its interpretation.
 - d) Diagnostic importance of enzyme.
3. Very Short Notes : (any 3 out of 4) (3x2=6)
- a) Biochemical parameter and Normal values of Liver profile.
 - b) List down the causes for proteinuria.
 - c) Clinical importance of PUFA and MUFA.
 - d) Metabolism of carbohydrate.

SECTION – C (Applied Nutrition & Dietetics)

4. Essay / Situation type question : (any 1 out of 2) (1x10=10)
- a) Define Recommended Daily Allowance (RDA). Explain the factors affecting RDA. Write calculation formula and factors affecting BMI.
 - b) Define Malnutrition. Describe the clinical features of severe (PEM) Protein Energy Malnutrition and Dietary Management of Protein Energy Malnutrition.
5. Short Notes : (any 4 out of 5) (4x5=20)
- a) National Nutritional Policy.
 - b) Discuss the dietary sources of proteins.
 - c) Explain the methods of food preservation and storage method.
 - d) Mid-day meal programme.
 - e) Write down the functions and deficiency of Vitamin – C.
6. Very Short Notes : (any 6 out of 7) (6x2=12)
- a) Recommended dietary allowance and list down the sources of fats.
 - b) Principles of nutrition education.
 - c) Deficiency disorder of calcium.
 - d) List any four functions of carbohydrates.
 - e) Objectives of Therapeutic diet.
 - f) Principles of balanced diet.
 - g) Classification of food.
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