



[Total No. of Pages : 2

EEB000030001755201

**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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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)





**Second Semester B.Sc. Nursing Examination,
Summer - 2023 (Phase - III)
NURSING FOUNDATION - I & II**

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.
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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 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 sections B & C.

- 2) Essay/Situation type (Solve any 2 Out of 3): [2 × 15 = 30]
- a) Mrs. X is complaining of dysphagia and altered sensorium. She is alone and no relatives are accompanying her. Based on the history:
 - i) Define Nursing Process. [2]
 - ii) Explain the first phase of Nursing Process. [5]
 - iii) List 3 priority wise nursing diagnosis. [3]
 - iv) Explain the phases of Nurse Patient relationship. [5]
 - b) Mr. Rohit, 34 years old male is admitted in the Medical ward with fever and chills. Answer the following:
 - i) Explain the types of fever. [5]
 - ii) List the effects of hyperthermia on the body. [3]
 - iii) What measures will you take as nurse to reduce the temperature. [4]
 - iv) List the effect of cold application on the body. [3]

- c) i) Define Health. [2]
ii) Explain dimensions of health. [4]
iii) Explain the types of illness. [4]
iv) Explain the impact of illness on family. [5]

3) Short Notes (Solve any 5 out of 6): [5 × 5 = 25]

- a) Stages of Grieving process.
b) Complication of bed ridden patient.
c) Factors Influencing Health.
d) Barriers to effective communication.
e) Records and its importance.
f) Care of Patient with indwelling urinary catheter.

4) Very Short Notes(Solve any 4 out of 5) [4 × 2 = 8]

- a) List 6 nursing responsibilities that the nurse should perform when administering Oxygen to the patient.
b) List 6 characteristics of Nursing Profession.
c) List three nursing interventions for hyperthermia.
d) List 5 rights of medication administration.
e) Health advice to be given to a patient having constipation. (6 points)

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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

- 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 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):

- 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.





Second Semester B.Sc. Nursing Examination, (Phase - III) Winter - 2023
NURSING FOUNDATION - I & II

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

Section B & C Marks : 60

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 answerbook for Section B & C.**

2. Essay/Situation Type (Solve any 2 Out of 3):-

[2×15=30]

- | | |
|--|-----|
| a) i) List the complications of Unconsciousness. | [3] |
| ii) Explain the Glasgow coma scale. | [5] |
| iii) List the pressure points in a supine position. | [2] |
| iv) How will you prevent pressure sores in a patient. | [5] |
| b) i) Explain the types of admission in the hospital. | [4] |
| ii) Explain the Nurses role while taking admission. | [4] |
| iii) How will you take care of the unit after patient's discharge. | [4] |
| iv) List the roles of a professional nurse. | [3] |

c) Mrs. Seema, 74 years old female is having difficulty in breathing, shortness of breathe, looking exhausted and is anxious. She is receiving oxygen 50% via oxygen mask. Answer the following.

- i) List 3 nursing diagnosis for Mrs. Seema. [3]
- ii) List the parameters assessed during respiratory assessment. [2]
- iii) Explain the nursing responsibilities while patient is receiving oxygen therapy. [5]
- iv) List the nursing interventions for improving the breathing in a patient. [5]

3. Short Notes(Solve any 5 Out of 6):- [5×5=25]

- a) Nutritional assessment
- b) Standard Precautions in infection control
- c) Factors affecting Sleep
- d) Role of nurse in maintaining optimal noise and ventilation in the ward
- e) Health care team: Roles and responsibilities
- f) Explain Process of Communication

4. Very Short Notes(Solve any 4 Out of 5):- [4×2=8]

- a) Define Pulse. List 2 alterations in pulse
- b) List 2 differences between verbal and non verbal communication
- c) List the methods to check the placement of Ryles tube in the stomach?
- d) How will you take care of rubber mackintosh?
- e) List 4 nursing responsibilities while applying physical restraint.



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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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 - 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 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.
Frank 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.

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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.

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Total No. of Pages : 2

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Second Semester B.Sc. (Nursing) Examination,
Summer - 2024 Phase - II
NURSING FOUNDATION - I & II



Total Duration : Section A+B = 3 Hours

Section B Marks : 63

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.
 - 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 sections.

- 2) Eassy/Situation type (Any 2 out of 3) : [2 × 15 = 30]
- a) Mr. Jaydeo, 75 years old male is unconscious and on nasal cannula 2 lit/min.
- i) List 4 priority nursing diagnosis. [4]
 - ii) Explain the Glasgow coma scale. [4]
 - iii) List the complications of bed ridden patient. [3]
 - iv) Explain the nursing responsibilities while administering oxygen therapy. [4]
- b)
- i) Define Communication. [2]
 - ii) Explain the process of Communication. [4]
 - iii) List the barriers in communication. [4]
 - iv) As a Nurse, how will you ensure effective communication. [5]
- c)
- i) Nursing as a Profession? Explain with rationale. [5]
 - ii) What health advice will you give to a person for preventing sexually transmitted infections. [5]
 - iii) As a nurse, how will you help in improving the body image of a female who has undergone mastectomy. [5]

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3) Short Answer Questions (Any 5 out of 6):

[5 × 5 = 25]

- a) Role of a nurse
- b) Patient education
- c) Maslow's hierarchy of needs
- d) Care of patient with Diarrhoea
- e) Assessment and prevention of Pressure Ulcers
- f) Care of Patient's Unit

4) Very Short Questions (Any 4 out of 5):

[4 × 2 = 8]

- a) Define Nursing according to Virginia Henderson
- b) List 4 records used while delivering patient care —
- c) List the strokes in back care —
- d) List 4 solutions used in oral care along with their purpose —
- e) List 4 nursing responsibilities during mid stream urine collection.



[Total No. of Pages : 2

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

NURSING FOUNDATION - I & II



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

Section B & C Marks : 63

SECTION - B & SECTION - C

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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 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.

2. Essay/Situation Type (Solve any 2 out of 3) :

[2×15=30]

- a)
 - i) What is Fluid and Electrolyte imbalance? [3]
 - ii) Enlist the clinical features of Fluid & Electrolyte imbalance. [5]
 - iii) Explain the Nursing management of patient with Fluid volume deficit. [7]
- b)
 - i) Define cross infection. [2]
 - ii) Explain the principles of skin care. [5]
 - iii) Explain role of nurse in reinvention of cross infection in hospital. [8]
- c)
 - i) Define Gastric ^Lavage. [2]
 - ii) List the indication of Gastric ^Lavage. [5]
 - iii) Explain the nurses responsibility during Nasogastric tube incubation & feeding. [8]



3. Short Notes (Solve any 5 out of 6) :

[5×5=25]

- a) Explain coping strategies to manage stress.
- b) As a nurse how will you utilize the nursing process to develop self esteem.
- c) What are the measures to avoid needle stick injury?
- d) Write various methods of physical examination.
- e) Role of Nurse in taking care of visually impaired person.
- f) Write about Health Belief Model and What do you understand by health belief model.

4. Very Short Notes (Solve any 4 Out of 5) :

[4×2=8]

- a) What are the contra indication of hot application?
- b) List the factors which affecting the appetite.
- c) Write down the factors affecting sexuality.
- d) List the characteristic of pulse.
- e) What is transcultural nursing?

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[Total No. of Pages : 2

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

APPLIED BIOCHEMISTRY & APPLIED NURTRION & 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 ~~wearing~~^{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:**
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 - 4) The number to the **right** indicates **full marks.**
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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.

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SECTION – C (Applied Nutrition & Dietetics)

4. Essay / Situation type question : (any 1 out of 2) **(1x10=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) **(4x5=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) **(6x2=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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Seat No:- 24486 *SMY*

Nursing_NURSING FOUNDATION - I & II_SECOND SEMESTER B.SC. NURSING_NA_Section B&C_I

Nursing Foundations -I & II
Time : 3 Hrs
Max. Marks : 63.00
Version :
Question Booklet Sr. No. :

EEB0000300017552202



Section B

Que2.Essay / Situation Type (Solve any 2 out of 3)

(2x15=30.00)

- a.
Define the term ' Nursing process'. (02 marks)
Explain the steps of Nursing Process. (05 marks)
Develop a Nursing care plan on two priority wise needs of a patient with high grade Fever and chills. (08 marks)

- b.
Define the term "Communication". (02 marks)
Explain the communication process. (05 marks)
Explain the Therapeutic communication techniques.(08 marks)

- c.
Describe routes of drug administration. (05marks)
Explain Nurses responsibility in storage and maintenance of drugs (05marks)
Describe factors affecting Fluid and electrolyte balance (05marks)

Que3.Short Notes (Solve any 5 out of 6)

(5x5=25.00)

- a.
Illness wellness continuum model.
- b.
Communication with the hearing impaired client.
- c.
Nursing Responsibility during urine sample collection.
- d.
Calista Roy's Adaptation model.
- e.
Various routes of medication administration.
- f.
Non-pharmacological Interventions of Pain.

Que4.Very Short Notes(Solve any 4 Out of 5) :-

(4x2=8.00)

Types of Hospital.

b.

Methods of Physical Examination.

c.

Factors affecting Bowel Elimination.

d.

Barriers to effective Communication.

e.

List down Do's and Don'ts of Documentation.

