

Reg. No:

**Second Semester B.Sc Nursing Degree Regular/Supplementary
Examinations October 2024
Paper I – Applied Biochemistry and Applied Nutrition & Dietetics**

Time: 3 Hrs

Total Marks: 75

- *Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers*
- *Indicate the question number correctly for the answer in the margin space • Answer all parts of a single question together*
- *Leave sufficient space between answers • Draw table/diagrams/flow charts wherever necessary*
- *Write section A and section B in separate answer books (32 Pages). Do not mix up questions from section A and section B.*

Section A – Applied Biochemistry

Q.P. CODE: 221010

Max. Marks: 25

1. Multiple Choice Questions (4x1=4)

(choose the most appropriate answer from the options given)

The Answers to MCQ questions (Q.No. i to Q.No. iv) shall be written continuously on the first writing sheet (ie Page No. 3) only

- i. The normal glucose tolerance curve reaches peak is
 - a) 15 min
 - b) 1 hr
 - c) 2 hrs
 - d) 2 ½ hrs
- ii. Which bond is present in the primary structure of protein
 - a) Ester
 - b) Hydrogen
 - c) Ionic bond
 - d) Peptide
- iii. Which of the following enzyme typically elevated in alcoholism
 - a) Serum Alkaline Phosphatase (ALP)
 - b) Serum Glutamic-Oxaloacetic Transaminase (SGOT)
 - c) Serum Gamma-Glutamyl Transferase (GGT)
 - d) Serum Acid Phosphatase (ACP)
- iv. Immunoglobulins are classified on the basis of
 - a) Type of light chains
 - b) Type of heavy chains
 - c) Types of light and heavy chains
 - d) Molecular weight

Short notes

(3x5=15)

2. Essential fatty acids.
3. Electrophoresis
4. Liver function tests.

Differentiate the following

(3x2=6)

5. Glycosuria and Ketonuria
6. High Density Lipoprotein (HDL) and Low Density Lipoprotein (LDL)
7. Metabolic alkalosis and Respiratory alkalosis.

(PTO)

Section B – Applied Nutrition and Dietetics

Q.P. CODE: 222010

Max. Marks: 50

1. Multiple Choice Questions

(8x1=8)

(choose the most appropriate answer from the options given)

The Answers to MCQ questions (Q.No. i to Q.No. viii) shall be written continuously on the first writing sheet (ie Page No. 3) only

- i. Children with pot belly is an indicative of which type of disease
a) Goitre b) Anaemia c) Kwashiorkor d) Marasmus
- ii. Richest source for ascorbic acid is
a) Amla b) Rice flakes c) Yellow coloured fruits d) Milk
- iii. Which of the following disease is caused by the deficiency of haemoglobin
a) Malaria b) Anemia c) Rabies d) Cholera
- iv. Beriberi disease caused by deficiency of which of the following vitamins
a) Vitamin B₁₂ b) Vitamin B₂ c) Vitamin B₁ d) Vitamin B₃
- v. 1 gm of carbohydrates gives ----- kcals in our body
a) 9 kcals b) 4 kcals c) 7 kcals d) 5 kcals
- vi. The moist heat method of cooking used to peel the skin of fruits is -----
a) Poaching b) Blanching c) Boiling d) Toasting
- vii. Which of the following vitamin works with calcium to build strong bones
a) Vitamin A b) Vitamin D c) Vitamin K d) Folic acid
- viii. A diet high in saturated fats can be linked to which of the following
a) Kidney failure b) Bulimia
c) Cardiovascular disease d) Anorexia

Essay

(1x10=10)

2. Enlist the Nutritional Problems in India and explain the nutritional programs in India (3+7)

Short notes

(4x5=20)

3. Methods of Nutritional Assessment
4. Prevention of Food Adulteration
5. Functions of proteins
6. Factors influencing basal metabolic rate

Differentiate the following

(3x2=6)

7. Energy yielding food and Non energy yielding food
8. Breast feeding and Weaning
9. Thiamine and Riboflavin

List Down the following.

(3X2=6)

10. Advantages of cooking
11. Five keys to safer food handling
12. Principles of Nutrition Education.
