

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):

[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.

