

**SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH
SRI DEVARAJ URS COLLEGE OF NURSING**

**B.Sc. Nursing First Year Semester-II
February 2026 Examination**



Time: 3.00 Hrs.

**Subject: Applied Biochemistry
(Use Separate Answer Booklet Sec A & B)**

Section: A [Max.Marks:25]

Q.P Code: R2035

*Your answers should be specific to the questions asked.
Draw neat labelled diagrams wherever necessary*

I. MULTIPLE CHOICE QUESTIONS

4x1= 4 Marks

- 1. The major fat in Adipose Tissue is**
 - a) Phospholipid
 - b) Sphingolipids
 - c) Cholesterol
 - d) Triacylglycerol
- 2. Hypothyroidism in Children is known as**
 - a) Cretinism
 - b) Myxoedema
 - c) Goitre
 - d) Porphyrias
- 3. Renal function tests include**
 - a) Blood Urea
 - b) Serum Creatinine
 - c) Urinary Proteins
 - d) All of these
- 4. Biological reference Interval for Serum Triglycerides**
 - a) 15 -20 mg/dL
 - b) 45 mg/dL
 - c) 80- 150 mg/dL
 - d) 80- 150 meq/L

II. SHORT ESSAY

3x5=15 Marks

5. List out the Diabetic Profile Investigations with the biological reference Interval
6. Define Fatty Liver. Mention the causes of fatty liver. Add a note on lipotropic factors.
7. Classify lipids with suitable examples and write the Biomedical importance

III. SHORT ANSWER

3x2=6 Marks

8. Give four causes of Hyperglycemia
9. List any two functions of Albumin and write the biological reference range of serum Albumin.
10. Define Metabolic Acidosis

Applied Nutrition and Dietetics

Section: B [Max.Marks:50]

Q.P Code: R2036

I. MULTIPLE CHOICE QUESTIONS:

8x1=8 Marks

1. Which mineral is primarily stored in the thyroid gland?
 - a) Iron
 - b) Calcium
 - c) Iodine
 - d) Potassium
2. Which of the following practices helps prevent cross-contamination?
 - a) Using the same knife for raw meat and vegetables
 - b) Storing raw meat above cooked food
 - c) Washing hands before and after handling food
 - d) Not cleaning cutting boards
3. BMI (Body Mass Index) is calculated using which two measurements?
 - a) Age and height
 - b) Weight and height
 - c) Weight and age
 - d) Waist circumference and height
4. Which of the following is a fat-soluble vitamin?
 - a) Vitamin B12
 - b) Vitamin C
 - c) Vitamin D
 - d) Vitamin B1
5. A diabetic diet primarily focuses on controlling:
 - a) Protein intake
 - b) Carbohydrate intake
 - c) Vitamin levels
 - d) Salt intake
6. The main function of carbohydrates in the body
 - a) Store genetic information
 - b) Provide energy
 - c) Build muscles
 - d) Regulate hormones
7. Which mineral is essential for strong bones and teeth?
 - a) Iron
 - b) Calcium
 - c) Potassium
 - d) Iodine
8. Which of the following is a monosaccharide?
 - a) Sucrose
 - b) Lactose
 - c) Glucose
 - d) Maltose

II. LONG ESSAY:

1x10=10 Marks

9. Describe on Mid-day meal scheme nutritional programme

III. SHORT ESSAY:

4x5=20 Marks

10. Explain the role of food handlers in food borne diseases.
11. Explain principles and methods of nutrition education
12. Explain the food prevention act (PFA).
13. Explain sources and functions of calcium with daily requirements for an adult.

IV. SHORT ANSWER:

6x2=12 Marks

14. Define diet therapy
15. List the deficiency of Vitamin D
16. Meaning of food adulteration
17. Importance of breast feeding
18. Preventive measures of iron deficiency anemia
19. Food source of Vitamin A