

THE TAMIL NADU DR.M.G.R. MEDICAL UNIVERSITY

[BSCN 0524]

**MAY 2024
(APRIL 2024 EXAM SESSION)**

Sub. Code: 2304

B.Sc. (Nursing) DEGREE EXAMINATION

**SECOND SEMESTER
PAPER IV – APPLIED BIOCHEMISTRY
AND APPLIED NUTRITION & DIETETICS**

Q.P. Code: 652304

Time : Three Hours

Maximum : 75 Marks

**Answer Section A and Section B Separately
Answer all the Questions**

**SECTION – A (25 Marks)
(APPLIED BIOCHEMISTRY)**

I. Multiple choice Questions: (4 x 1 = 4)
Choose one correct answer in the Answer Script. No overwriting should be done.
Choice should be given in Capital Letters.

1. The enzyme that is elevated in Prostate cancer is
A) Acid phosphatase B) Lipase
C) Aspartate transaminase D) Gamma glutamyl transferease
2. The vitamin measured by ELISA is
A) Thiamine B) Pyridoxine C) Biotin D) Pantothenic acid
3. Normal serum urea level is
A) 15-40 mg/dl B) 60-1000 mg/dl C) 30-80 mg/dl D) 50-60 mg/dl
4. Good cholesterol is
A) LDL B) HDL C) VLDL D) Chylomicrons

II. Short answers: (3 x 5 = 15)

1. Write a short note on Diabetes mellitus.
2. Write about different types of Jaundice with investigation.
3. Write in detail about Metabolic acidosis.

III. Very short answers: (3 x 2 = 6)

1. Phenyl ketonuria.
2. Name the ketone bodies.
3. Electrophoresis.

SECTION – B (50 Marks)
(APPLIED NUTRITION & DIETETICS)

I. Multiple choice Questions: (8 x 1 = 8)
Choose one correct answer in the Answer Script. No overwriting should be done.
Choice should be given in Capital Letters.

1. Amylases in saliva begin the breakdown of carbohydrates into -----
A) Glycerol B) Monosaccharides C) Amino acids D) Fatty acid
2. Sunshine vitamin
A) Vitamin C B) Vitamin A C) Vitamin D D) Vitamin B
3. Clinical manifestation that is not observed in marasmus -----
A) Diarrhoea B) Subnormal temperature
C) Oedema D) Loss of subcutaneous fat
4. RDA for protein in a balanced diet for a normal adult is -----g/kg body weight
A) 0.8 – 1 B) 0.5-0.6 C) 2 D) 2.5
5. Expand BIS
A) Bureau of Indian Standards B) Bureau of International Standards
C) Bureau of Internal Stocks D) Booking of Indian Stocks
6. Accepted BMI for an Asian adult is _____ kg/m²
A) 18-22 B) 18.5-24.9 C) 18.5-22.9 D) 19.5-23
7. Diet advice in peptic ulcer is ----- diet
A) Bland B) Low fibre C) DASH D) Liquid
8. The percentage of total calorie obtain from carbohydrate in a balanced diet
A) 15-20% B) 20-35% C) 50-60% D) 60-80%

II. Essay: (1 x 10 = 10)

1. Define Basal Metabolic Rate (BMR) and discuss the factors that affects BMR.

III. Short answers: (4 x 5 = 20)

1. Principles to be followed while planning menu for a family.
2. Role of nurse in management and prevention of Severe Acute Malnutrition.
3. Methods of nutritional assessment.
4. National nutritional policy.

IV. Very short answers: (6 x 2 = 12)

1. List the essential and non-essential amino acids.
2. Preventive measures of iron deficiency anaemia.
3. Hyperkalaemia and hypokalaemia.
4. Importance of breast feeding.
5. Dietary fibre.
6. Food adulteration with example.
