

MEDICAL**[BSCN 1223]****DECEMBER 2023
(OCTOBER 2023 EXAM SESSION)****Sub. Code: 2304**

**B.Sc. (Nursing) DEGREE EXAMINATION
(Revised Regulations for the candidates admitted from 2022-2023 onwards)
SECOND SEMESTER
PAPER IV – APPLIED BIOCHEMISTRY & APPLIED NUTRITION AND 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.

- ALP measurements are useful in the investigation of.....
A) myocardial infarction B) cerebrovascular disease
C) hepatobiliary and bone disease D) mumps
- Fall in pH of plasma stimulates
A) Liver B) respiratory center C) pancreas D) lungs
- The process of lipid digestion dependent on
A) lipase B) bile salts C) amylase D) vitamin D
- Substrate for gluconeogenesis is
A) cholesterol B) heme C) glucose D) pyruvate

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

- Explain about LDH and CPK.
- Write about aromatic amino acids.
- Digestion and absorption of Carbohydrates.

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

- Define renal function test.
- Types of immunoglobulin.
- What is atherosclerosis and write its causes.

SECTION – B (50 Marks)**(APPLIED NUTRITION AND 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.

- One Gram Dietary Fibre provides _____ Kilocalories

A) 4 B) 4 C) 7 D) 9

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2. Which are Inorganic Nutrients?
A) Carbohydrates and Minerals B) Water and Proteins
C) Carbohydrates and Proteins D) Mineral and Water
3. PFA Act was made in the year _____
A) 1951 B) 1952 C) 1953 D) 1954
4. Which of the following is a deficient nutrient of Pernicious Anaemia?
A) Cobalamin B) Iron C) Pyridoxin D) Folate
5. Fat act as
A) Insulation of body B) Enzyme C) Lubricant D) Oxidizing agent
6. Which of the following is not a food additive?
A) Saffron B) Vanilla essence C) Argemon oil D) Saccharin
7. One of the following is not an essential amino acids
A) Histidine B) Alanine C) Leucine D) Valine
8. Which vitamin is otherwise called as Vitamin H?
A) Thiamine B) Folate C) Biotin D) Riboflavin

II. Essay: (1 x 10 = 10)

1. Classify Minerals and elaborate them by its sources, functions and deficiency.

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

1. Describe Nutritional classification of Proteins.
2. Explain the methods of cooking with suitable examples.
3. Discuss the childhood obesity and its assessment parameters.
4. What is now called PEM and Distinguish Under and Over nutrition.

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

1. Point out the WHO instructions for food safety and role of HACCP.
2. Write the supplemental dosage of Anaemia Mukht Bhart and WIFS Programme.
3. Tabulate the RDA 2020 for Carbohydrates and Proteins.
4. Give the details of Pellagra and Rickets.
5. Write the Coenzyme form of each water soluble vitamins.
6. Define Diet therapy.

[BSCN 1223]

MEDICAL**[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.

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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.
