

BACHELOR OF SCIENCE (NURSING) (CBCS-2022)
B.SC. (NURSING) SEM-II : SUMMER : 2024
SUBJECT: APPLIED BIOCHEMISTRY & APPLIED NUTRITION & DIETETICS

Day : Saturday
Date : 06/07/2024

S-25867-2024

Time : 10:00 AM-01:00 PM
Max. Marks : 75

N.B.

- 1) All questions are **COMPULSORY**.
- 2) Figures to the **RIGHT** indicate **FULL** marks.
- 3) Answer to both the sections should be written in **SEPARATE** answer books.
- 4) Write only answers of **MCQ's** in the answer sheet.
- 5) Each **MCQ's** carries **ONE** mark.

SECTION – A

(APPLIED BIOCHEMISTRY)

Q.1 Multiple Choice Questions :

(04)

- i) Enzyme that hydrolyzes maltose is ____
 - a) Invertase
 - b) Lipase
 - c) Lactase
 - d) maltase
- ii) All of the following are ketone bodies except ____
 - a) β - hydroxybutyric acid
 - b) Glucose
 - c) Acetoacetate
 - d) Acetone
- iii) The functions of plasma albumin are ____
 - a) Osmosis
 - b) Transport
 - c) Immunity
 - d) Both a and b
- iv) Protein is polymer of ____
 - a) Sugars
 - b) Phenols
 - c) Amino acids
 - d) Carboxylic acids

Q.2 Write very short answers (ANY THREE)

(3x2) (06)

- a) Functions of protein
- b) Diagnostics enzymes in muscle diseases
- c) Metabolic acidosis
- d) Conjugated bilirubin
- e) Keto acidosis

Q.3 Write short answers on (ANY THREE)

(3x5) (15)

- a) Diabetes mellitus
- b) Describe β -oxidation of fatty acids.
- c) Describe principles of electrophoresis. Write abnormal electrophoretic patterns.
- d) Describe respiratory and renal regulation of blood pH.
- e) Explain different thyroid function tests.

PTO

SECTION – B
(APPLIED NUTRITION AND DIETETICS)

Q.4 Multiple Choice Questions :

(08)

- i) All the following are nutrients found in food, except ____
 - a) Proteins
 - b) Plasma
 - c) carbohydrates
 - d) Vitamins
- ii) Bitot's spot is due to the deficiency of ____
 - a) Vitamin A
 - b) Vitamin B
 - c) Vitamin C
 - d) Vitamin D
- iii) Fructose is also called is ____
 - a) Milk sugar
 - b) Fruit sugar
 - c) Monosaccharides
 - d) Polysaccharides
- iv) Thiamine is also known as ____
 - a) Folic acid
 - b) Riboflavin
 - c) Vitamin B1
 - d) Vitamin C
- v) Which mineral plays a role in neuromuscular excitability and nerve transmission ____
 - a) Sodium, Calcium and Potassium
 - b) Calcium and Iron
 - c) Iron, Sodium and Potassium
 - d) Iron
- vi) Decreases serum sodium levels is called as ____
 - a) Hypocalcemia
 - b) Hypokalemia
 - c) Hypochloremia
 - d) Hypernatremia
- vii) The amount of fats in daily energy intake ____
 - a) Should not exceed 30% of total energy intake
 - b) Should not exceed 20% of total energy intake
 - c) Should not exceed 50% of total energy intake
 - d) Should not exceed 10% of total energy intake
- viii) Method of cooking which involves use of electromagnetic waves is known as ____
 - a) Braising
 - b) Microwaving
 - c) Sauteing
 - d) Grilling

Q.5 Very short answer questions (ANY SIX)

(6x2) (12)

- a) Define micronutrients and macronutrients with example for each.
- b) What are Polysaccharides?
- c) Define BMI.
- d) What is Recommended Dietary Allowance
- e) Write down the sources of Iodine.
- f) Write down the elements of balance diet.
- g) Define Water-soluble Vitamins.
- h) Define soft diet.

Q.6 Write short notes on (ANY FOUR)

(4x5) (20)

- a) Discuss regarding the food groups.
- b) Nurses role in management of diarrhea and dehydration.
- c) Explain about Pellagra in brief.
- d) Discuss regarding therapeutic diet.
- e) Write in detail regarding moist heat cooking methods.
- f) Discuss regarding food preservation methods.
- g) Enlist the factors influencing recommended dietary allowances.

Q.7 Long answer questions (ANY ONE)

(10x1) (10)

- a) What is nutritional assessment? **(02)**
- b) Enlist the objectives of nutritional assessment. **(04)**
- c) Discuss the role of a nurse in dietary management of a woman with nutritional anemia. **(04)**

OR

- a) Define Severe Acute Malnutrition (SAM). **(02)**
- b) Discuss the role of a nurse in prevention of Malnutrition in children. **(04)**
- c) Discuss the National Guidelines on Infant and Young Child Feeding (IYCF.) **(04)**
