

**BACHELOR OF SCIENCE (NURSING) (CBCS-2022)**  
**B.SC. (NURSING) SEM-II : WINTER : 2023**  
**SUBJECT : APPLIED BIOCHEMISTRY & APPLIED NUTRITION & DIETETICS**  
**(UE UE)**

Day : Wednesday

Time : 10:00 AM-01:00 PM

Date : 17-01-2024

**W-25867-2023**

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 book.
- 4) Each MCQ's carries **ONE** marks.

**SECTION-A**  
**(APPLIED BIOCHEMISTRY)**

- Q. 1** Multiple choice Questions **(04)**
- i) In anaerobic glycolysis, energy yield from each molecule of glucose is -----
    - a) One
    - b) Two
    - c) Eight
    - d) Thirty
  - ii) The lipophilic bilirubin is transported in plasma bound to -----
    - a) Globulin
    - b) Albumin
    - c) Both a and b
    - d) Fibrinogen
  - iii) ----- is called as good cholesterol
    - a) HDL
    - b) LDL
    - c) VLDL
    - d) Both a and b
  - iv) The functions of plasma albumin are
    - a) Osmosis
    - b) Transport
    - c) Immunity
    - d) Both a and b
- Q. 2** Write very short answers (**ANY THREE**) **(06)**
- a) Indirect ELISA
  - b) What is BUN test?
  - c) Explain briefly enzyme markers in bone disease.
  - d) Briefly discuss isoenzymes of LDH
- Q. 3** Write short answers (**ANY THREE**) **(15)**
- a) Describe types of diabetes mellitus with complications and management.
  - b) Describe urea cycle in detail
  - c) Explain steps of  $\beta$ -oxidation of palmitic acid with energetics
  - d) Describe respiratory and renal regulation of blood  $p^H$

P.T.O.

**SECTION-B**  
**(APPLIED NUTRITION & DIETETICS)**

- Q. 4** Multiple Choice Questions **(08)**
- i) Foods are generally classified into
    - a) Protective foods, energy yielding foods & body building foods
    - b) Only Energy yielding foods
    - c) Body building foods
    - d) Protective and energy yielding foods
  
  - ii) Non digestible carbohydrates are
    - a) Cellulose
    - b) Hemicelluloses
    - c) Pectin
    - d) Cellulose and hemicelluloses
  
  - iii) A fat in the liquid state at room temperature (20 degree) is called
    - a) Ghee
    - b) Saturated fat
    - c) Oil
    - d) All of the above
  
  - iv) Decrease serum potassium level is called
    - a) Hypocalcemia
    - b) Hypokalemia
    - c) Hypochloremia
    - d) hyperkalemia
  
  - v) Budgeting of food means to provide budget for the nutritional requirement of
    - a) An individual and family
    - b) A family alone
    - c) A community and society
    - d) Individual family and community
  
  - vi) Irradiation of food is also known as
    - a) Cold pasteurization
    - b) Cold storage
    - c) Lye-preservation
    - d) Canning
  
  - vii) Cobalamin is known as
    - a) Vit A
    - b) Vit B12
    - c) Vit C
    - d) Vit D
  
  - viii) All are rich sources of Vit E except
    - a) Wheat germ oil
    - b) Sunflower oil
    - c) Papaya
    - d) Red meat
- Q. 5** Very short answer (ANY SIX) **(12)**
- a) What are water soluble Vitamins?
  - b) Enlist sources of carbohydrates
  - c) Enlist deficiencies of fats
  - d) Importance of high fiber diet
  - e) List down functions of calcium
  - f) Define therapeutic diet
  - g) Write down the sources of Iodine
  - h) Define Braising as a method of cooking

- Q. 6** Write short notes on (**ANY FOUR**) (20)
- a) Factors affecting Basal Metabolic Rate
  - b) Functions of Protein
  - c) Describe daily allowance, functions and metabolism of Vit B1
  - d) Classify minerals and enumerate the dietary sources of minerals
  - e) Describe about food exchange

- Q. 7** Long Answer Questions ( **ANY ONE**) (10)
- a) Define Food Standards (2)
  - b) Discuss steps in safe food handling (4)
  - c) Describe principles of cooking (4)

**OR**

- a) Define balance diet (2)
- b) Discuss the factors influencing RDA (4)
- c) Write a note on Infant and Young Child Feeding (IYCF guidelines) (4)

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**BACHELOR OF SCIENCE (NURSING) (CBCS-2022)**  
**B.SC. (NURSING) SEM-II : SUMMER : 2025**  
**SUBJECT: APPLIED BIOCHEMISTRY & APPLIED NUTRITION & DIETETICS**

Day : Tuesday  
Date : 08/07/2025

**S-25867-2025**

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) Answers to both the sections should be written in **SEPARATE** answer books
- 4) Write **ONLY ANSWERS** of MCQ in the answer sheet.
- 5) Each MCQ carries **ONE MARK**.

**SECTION – A (APPLIED BIOCHEMISTRY)**

(Marks : 25)

**Q.1 Multiple Choice Questions**

(04)

1. Which of the following are major functions of carbohydrates?
  - a) Storage
  - b) Structural framework
  - c) Transport materials
  - d) Both storage and structural framework
2. Protein are made up of which of the following monomers \_\_\_\_\_
  - a) Nucleotides
  - b) Amino acids
  - c) Monosaccharides
  - d) Fatty acids
3. The highest phospholipids content found in \_\_\_\_\_
  - a) Chylomicron
  - b) VLDL
  - c) LDL
  - d) HDL
4. IgM is \_\_\_\_\_
  - a) Pentamer with 10 antigen binding sites
  - b) Tetramer with 8 antigen binding sites
  - c) Monomer with 2 antigen binding sites
  - d) Dimer with 4 antigen binding sites

**Q.2 Write very short answer on ANY THREE of the following:**

(3 × 2 = 06)

- a) Discuss Metabolic acidosis
- b) Explain absorption of carbohydrates
- c) Mention types and significance of ketone bodies
- d) Elaborate principle of ELISA
- e) Describe protein metabolism

**P. T. O.**

**Q.3** Write short answer on **ANY THREE** of the following: (3 × 5 = 15)

- a) Describe principle of electrophoresis and write normal electrophoretic pattern
- b) Enlist types, causes and symptoms of Jaundice
- c) Explain liver and thyroid functions test
- d) Describe acidosis
- e) Enlist causes and symptoms of hypoproteinemia

**SECTION – B (APPLIED NUTRITION AND DIETETICS) (Marks : 50)**

**Q.4 Multiple Choice Questions (08)**

1. Junk food is also referred to as \_\_\_\_\_
  - a) Low calorie food
  - b) Empty calorie food
  - c) Fortified food
  - d) Nutrient value food
  
2. Vegetables have high fiber such as \_\_\_\_\_
  - a) Cellulose
  - b) Mucilage
  - c) Pectin
  - d) All of the above
  
3. Animal products are rich source of \_\_\_\_\_
  - a) Carbohydrates
  - b) Fats
  - c) Protein
  - d) Minerals
  
4. Basal metabolic rate is decreased in \_\_\_\_\_
  - a) Obesity
  - b) Feeding
  - c) Hyperthyroidism
  - d) Exercise
  
5. All are the Fat soluble vitamins except \_\_\_\_\_
  - a) Vitamin A
  - b) Vitamin D
  - c) Vitamin B
  - d) Vitamin E
  
6. Which Vitamin helps in Blood clotting \_\_\_\_\_
  - a) Vitamin D
  - b) Vitamin K
  - c) Vitamin A
  - d) Vitamin C

7. Mineral that controls growth and body weight \_\_\_\_\_
- a) Calcium
  - b) Iodine
  - c) Phosphorus
  - d) Potassium

8. Nutrients that are rich in cholesterol \_\_\_\_\_
- a) Cereals
  - b) Pulses
  - c) Egg yolk
  - d) Fish

**Q.5** Write very short answer on **ANY THREE** of the following: **(6 × 2 = 12)**

- a) Enlist the dietary sources of Carbohydrates.
- b) Enlist the functions of Fats in our body.
- c) What are dietary rich sources of Vitamin C
- d) Define the objectives of cooking food.
- e) Define therapeutic diet.
- f) Enlist the sources of Calcium.
- g) What are safe food practices
- h) Define non- perishable food.

**Q.6** Write short notes on **ANY FOUR** of the following: **(4 × 5 = 20)**

- a) Explain the factors affecting BMR
- b) Describe the deficiency disease caused due to Vitamin B<sub>1</sub>
- c) Potassium is an important mineral in our body- Justify
- d) Discuss principles of Menu Planning
- e) Discuss dietary management in Diabetes mellitus

**Q.7** Long Answer Questions on **ANY ONE** of the following: **(1 × 10 = 10)**

- A)**
- i) Define Balance Diet. **(02)**
  - ii) Describe the food groups in detail. **(04)**
  - iii) Discuss the different Moist heat cooking methods. **(04)**

**OR**

- B)**
- i) Define Protein Energy Malnutrition. **(02)**
  - ii) Describe in detail regarding Severe Acute Malnutrition (SAM). **(04)**
  - iii) Discuss the role of a Nurse in management and prevention of Malnutrition. **(04)**

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

Day : Tuesday  
Date : 07/01/2025

**W-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 book.
- 4) Write only answers of MCQ's in the answer sheet.
- 5) Each MCQ's carries **ONE** marks.

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

**Q.1** Multiple Choice Questions:

**(04)**

- i) Which of the following is non-reducing sugar?
  - a) Sucrose
  - b) Maltose
  - c) Glucose
  - d) Lactose
- ii) The fatty acids in body are predominantly oxidized by \_\_\_\_\_.
  - a)  $\beta$ -oxidation
  - b)  $\alpha$ -oxidation
  - c)  $\gamma$ -oxidation
  - d)  $\omega$ -oxidation
- iii) Phenylketonuria results from the deficiency of \_\_\_\_\_.
  - a) Keto acid decarboxylase
  - b) Arginase
  - c) Phenylalanine Hydroxylase
  - d) Homogentisate oxidase
- iv) Immunoglobulin consists of 2 identical heavy chains and \_\_\_\_\_.
  - a) 1 light chain
  - b) 3 light chain
  - c) 2 light chain
  - d) None of these

**Q.2** Write very short answer (**ANY THREE**)

**(3x2=06)**

- a) Essential amino acids
- b) Transamination
- c) Isoenzymes of CPK
- d) Van den Bergh test
- e) Direct ELISA

**Q.3** Write short notes on (**ANY THREE**)

**(3X5=15)**

- a) Classify Immunoglobulins. Describe the function of each class of Immunoglobulins.
- b) Describe the process of digestion and absorption of Proteins.
- c) Describe ketone bodies.
- d) Describe types and causes of Jaundice.
- e) Classification of carbohydrates.

**SECTION – B**  
**(APPLIED NUTRITION & DIETETICS)**

**Q.4** Multiple Choice Questions:

**(08)**

- i) Fruits and vegetables are considered as good source of \_\_\_\_\_.
  - a) Saturate fats
  - b) Carbohydrates
  - c) Proteins
  - d) Vitamins and Minerals
- ii) A rich sources of carbohydrate is \_\_\_\_\_.
  - a) Onion
  - b) Corn
  - c) Apple
  - d) Fish

P.T.O.

- iii) In hypothyroidism BMR is \_\_\_\_\_.
- a) Decreased by 30%                      b) Increased by 40%  
c) Decreased by 20%                      d) Increased by 20%
- iv) What is an example of monounsaturated fatty acid?
- a) Corn oil                                      b) Butter  
c) Olive oil                                      d) Palm oil
- v) Which of the following is a macro mineral?
- a) Potassium                                    b) Sodium  
c) Iron    d) Zinc
- vi) Decreased serum potassium is called \_\_\_\_\_.
- a) Hypocalcemia                                b) Hypokalemia  
c) Hypochloremia                              d) Hypernatremia
- vii) The factors influencing RDA are \_\_\_\_\_.
- a) Age and Gender                              b) Physiological Parameters  
c) Physical work                                d) All of the above
- viii) Boiling, stewing, poaching and simmering are \_\_\_\_\_ cooking methods.
- a) Moist heat                                    b) Dry heat  
c) Combination of moist & dry              d) Braising  
heat

Q.5 Write very short answer (ANY SIX)

(6x2=12)

- a) Define Malnutrition  
b) Define BMI  
c) Define Nutritional assessment.  
d) Enlist the functions of Fats  
e) Define water soluble Vitamins  
f) List down the functions of Phosphorus  
g) Write down the sources of Iodine.  
h) Define roasting as a method of cooking.

Q.6 Write short notes on (ANY FOUR)

(4X5=20)

- a) Discuss in detail regarding Dietary Fibers.  
b) Discuss about childhood Obesity.  
c) Describe the functions and sources of Vitamin C  
d) Write a note on Calcium deficiency.  
e) Describe the effect of heat on food.  
f) Describe safe food handling methods.  
g) Discuss regarding nutritional problems in India.

Q.7 Long Answer Questions (ANY ONE)

(10x1=10)

- a) Enlist the mineral deficiency disorder. (02)  
b) Discuss the causes, signs and symptoms of Iron deficiency. (04)  
c) Describe the role of a nurse in treatment of Iron deficiency disease. (04)

OR

- a) What is therapeutic diet? (02)  
b) What dietary modifications will you suggest for under-weight clients? (04)  
c) Discuss role of Nurse in preparing pre and post-operative diet. (04)

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**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)  $\beta$  - 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  $\beta$ -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)**

**BACHELOR OF SCIENCE (NURSING) (CBCS-2022)**  
**B.S.C. (NURSING) SEM-II : SUMMER : 2023**  
**SUBJECT : APPLIED BIOCHEMISTRY & APPLIED NUTRITION & DIETETICS**

Day : Monday

Time : 10:00 AM-01:00 PM

Date : 24-07-2023

**S-25867-2023**

Max. Marks : 75

**N.B.:**

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Answers to both the sections should be written in **SEPARATE** answer book.
- 4) Each **MCQ's** carries **ONE** marks.

**SECTION-A**  
**(APPLIED BIOCHEMISTRY)**

**Q.1 Multiple Choice Questions: (04)**

- i) Sucrose has glucose and -----
  - a) Maltose
  - b) Fructose
  - c) Glycogen
  - d) Galactose
- ii) Rothera's test commonly used to detect of ----- in urine.
  - a) Ketone bodies
  - b) Pyruvic acid
  - c) Cholesterol
  - d) None of these
- iii) Pepsin is secreted in -----
  - a) Intestine
  - b) Stomach
  - c) Liver
  - d) Pancreas
- iv) The lipophilic bilirubin is transported in plasma bound to -----
  - a) Globulin
  - b) Albumin
  - c) Both a & b
  - d) Fibrinogen

**Q.2 Write Very Short Answers: (ANY THREE) (3x2=06)**

- a) Sandwich ELISA
- b) Tests of lipid profile
- c) Obstructive Jaundice
- d) Isoenzymes of LDH
- e) Respiratory acidosis

**Q.3 Write Short Notes: (ANY THREE) (3x5=15)**

- a) Outline the reactions of Glycolysis and give energetics of the cycle
- b) Describe types and functions of lipoproteins
- c) Describe Urea Cycle
- d) Blood buffers
- e) Explain renal function tests

**SECTION - B**  
**(APPLIED NUTRITION & DIETETICS)**

**Q.4 Multiple Choice Questions: (08)**

- i) Balance diet means -----
  - a) Getting right types of food to supply nutrients and energy for growth and development
  - b) Maintaining the food chain required for growth and development.
  - c) Diet which fulfills the caloric requirement.
  - d) Diet for all age groups

**P. T. O.**

- ii) Which of the following Vitamin is responsible for retinol production:  
 a) Vitamin A  
 b) Vitamin B  
 c) Vitamin C  
 d) Essential fatty acids
- iii) Ghee has more of -----.  
 a) Saturated fatty acids  
 b) Polyunsaturated fatty acids  
 c) Glycerol  
 d) Essential fatty acids
- iv) Chief energy stores fo body are-----  
 a) Proteins  
 b) Fats  
 c) Vitamins  
 d) Minerals
- v) Which of the following is a Macro mineral -----.  
 a) Zinc  
 b) Cobalt  
 c) Chromium  
 d) Sodium
- vi) Iron deficiency results in -----.  
 a) Tetany  
 b) Rickets  
 c) Anemia  
 d) Fever
- vii) The amount of protein in daily energy intake is -----.  
 a) 10 % - 15%  
 b) 15% - 20%  
 c) 25%- 35%  
 d) 10% - 35%
- viii) Method of cooking which includes slow method where food is cut into pieces and cooked in minimum amount of fluid----  
 a) Brewing  
 b) Stewing  
 c) Poaching  
 d) Boiling

**Q.5** Write Very Short Answer Questions: (Any SIX) (6x2=12)

- Enlist the factors affecting food and nutrition among adults
- Define BMR.
- Enlist the functions of Proteins.
- Enlist the RDA for fats.
- What do you understand by Vitamins?
- Enlist the sources of Calcium.
- What is liquid diet?
- Define food safety.

**Q.6** Write Short Notes on: (ANY FOUR) (4x5=20)

- Explain Menu Planning /Meal Planning in detail.
- Describe deficiency symptoms of Vitamin D.
- Explain about soft diet in detail.
- Discuss regarding principles of Cooking.
- Discuss measures to prevent loss of nutrients during food preparation.
- Discuss the dietary modification indicated for a patient with diabetes mellitus.
- Write down in brief about National Guidelines on Infant and Young Child Feeding (IYCF).

**Q.7** Long Answers Questions: (ANY ONE) (10x1=10)

- Define Balance diet. (02)
- Discuss the elements and enlist the principles of balance diet. (04)
- Describe the food groups in detail. (04)

OR

- Define Protein-Energy-Malnutrition. (02)
- Discuss the classification of Protein-Energy –Malnutrition. (04)
- Describe in detail regarding Severe Acute Malnutrition (SAM) (04)

**BACHELOR OF SCIENCE (NURSING) (CBCS-2022)**  
**B.SC. (NURSING) SEM-II : WINTER : 2023**  
**SUBJECT : NURSING FOUNDATION-I & II**

Day : Friday

Date : 19-01-2024

**W-25868-2023**

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) Write MCQ in answerbook.
- 4) Answer to both the sections should be written in **SEPARATE** answer book.

**SECTION - A**

**Q.1 MCQ :**

**(1x06 = 06) (06)**

- 1 Site of Apical pulse is \_\_\_\_\_
  - a) At radial artery
  - b) At Brachial artery
  - c) At the heart
  - d) At femoral artery
- 2 Difficulty in swallowing is \_\_\_\_\_
  - a) Anorexia
  - b) Dysphagia
  - c) Dyspepsia
  - d) Regurgitation
- 3 The difference between oral and rectal temperature is \_\_\_\_\_
  - a) 0.5<sup>0</sup> C
  - b) 1<sup>0</sup> C
  - c) 1.5<sup>0</sup> C
  - d) 2<sup>0</sup> C
- 4 This is not a method of oxygen administration
  - a) Face mask
  - b) Hood
  - c) Tent
  - d) Nebulizer
- 5 Documentation is defined as anything \_\_\_\_\_
  - a) Written
  - b) Oral
  - c) Symbol
  - d) Diagram
- 6 \_\_\_\_\_ is the most common problem in TUBE FEEDING
  - a) Diarrhea
  - b) Infection
  - c) Hyperglycemia
  - d) Vomiting

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- Q.2** Write Essay Type Question on **ANY ONE** of the following : (1x10 = 10) (10)
- a) Define Health (02)
  - b) Explain the factors influencing Health (04)
  - c) Describe in detail about levels of Prevention (04)
- OR**
- a) Define Nursing Process (02)
  - b) Write in detail about Nursing Assessment (04)
  - c) Describe the types of Nursing diagnosis (04)
- Q.3** Write Short Answer on **ANY THREE** of the following : (3 x 5 = 15) (15)
- a) Barriers of communication
  - b) Stages of Rigor
  - c) Importance of Records and Reports
  - d) Purposes of oxygen inhalation
  - e) Maslow's Hierarchy
- Q.4** Write Very Short Answer on **ANY THREE** of the following : (3 x 2 = 06) (06)
- a) Enlist the different comfort devices
  - b) Define Nursing
  - c) Enlist code of ethics
  - d) Indications of tube feeding
  - e) List steps of Back care

**SECTION - B**

- Q.5 MCQ :** (1x07 = 07) (07)

- 1 The method of assessment of pain is \_\_\_\_\_
- a) Blood investigation
  - b) X'ray
  - c) Numerical pain rating scale
  - d) CT & MRI
- 2 These are devices used in health care settings to prevents from causing harm to themselves or other when alternative interventions are not effective.
- a) Comfort devices
  - b) PPE
  - c) Restrains
  - d) Safety devices
- 3 Discharge planning should begin \_\_\_\_\_
- a) The day before discharge
  - b) On the first day postoperatively
  - c) Shortly after admission
  - d) When the doctors order it
- 4 PRN the abbreviation in medication indicates \_\_\_\_\_
- a) When advice
  - b) When necessary
  - c) Immediately
  - d) Now

5 A persons first reactions to the possibility of dying is \_\_\_\_\_

- a) Denial
- b) Anger
- c) Depression
- d) Anxiety

6 The route of administrations of suppository is \_\_\_\_\_

- a) Oral
- b) Rectal
- c) Intramuscular
- d) Intravenous

7 Which of the following is the aim of first aid?

- a) Preserve life and limbs
- b) To limit future injuries
- c) To promote recovery
- d) All of the above

Q.6 Write Essay Type Question on ANY ONE of the following : (1x10 = 10) (10)

- a) Define rigor mortis (02)
- b) List the stages of dying (04)
- c) Role of Nurse in care of dead (04)

OR

- a) Define first aid (02)
- b) Enlist the Medical Emergencies (04)
- c) Explain the rules of first aid Management (04)

Q.7 Write Short Answer on ANY THREE of the following : (3 x 5 = 15) (15)

- a) Errors in medicine administration.
- b) Explain the methods of stress management.
- c) Role of nurse in providing culturally responsive care.
- d) Types of Discharge.
- e) Principles of Body Mechanics.

Q.8 Write Very Short Answer on ANY THREE of the following : (3 x 2 = 06) (06)

- a) Define irrigations
- b) Factors affecting sleep
- c) Importance of hand hygiene
- d) Define Autopsy
- e) Purposes of patient education

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**BACHELOR OF SCIENCE (NURSING) (CBCS-2022)**  
**B.SC. (NURSING) SEM-II : SUMMER : 2025**  
**SUBJECT: NURSING FOUNDATION-I & II**

Day : Thursday  
Date : 10/07/2025

**S-25868-2025**

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 book.

**SECTION – A**

**Q.1 Multiple Choice Question (6)**

- I) Communication is a Non-stop \_\_\_\_\_.
- a) Progress
  - b) Program
  - c) Process
  - d) Plan
- II) The Founder of Modern Nursing is \_\_\_\_\_.
- a) Virginia Henderson
  - b) Sister Diana
  - c) Sister Callista Roy
  - d) Florence Nightingale
- III) Examples of Objective Data is
- a) Nausea
  - b) Vomiting
  - c) Joint Pain
  - d) Headache
- IV) Germ theory of diseases had given the concept of Health which states \_\_\_\_\_.
- a) Biomedical concept
  - b) Ecological
  - c) Holistic
  - d) Psychosocial
- V) \_\_\_\_\_ is the normal range for adult human body temperature.
- a) 34-36<sup>0</sup> c
  - b) 36-38<sup>0</sup> c
  - c) 38-40<sup>0</sup> c
  - d) 40-42<sup>0</sup> c
- VI) \_\_\_\_\_ the site of Apical Pulse.
- a) At Radial artery
  - b) At Brachial artery
  - c) At the level of Heart
  - d) At femoral artery

**Q.2 Long Answer Question ( ANY ONE ) (15)**

- a) Define Back care (2)
- b) Write Purposes of Back Care (3)
- c) Explain Steps of Back care (5)
- d) Write the role of Nursing in care and prevention of Pressure sore. (5)

**OR**

**P.T.O.**

- a) Define Nursing process (2)
- b) Enlist the steps of Nursing process (3)
- c) Write in detail about steps of Assessment (5)
- d) Describe the types of Nursing Diagnosis (5)

**Q.3 Short Answer Questions (ANY THREE ) (12)**

- i) Qualities of Nurse
- ii) Purposes of Records and Reports
- iii) Principles of bandaging
- iv) Admission Process in hospital
- v) Types of communication
- vi) Levels of prevention

**Q.4 Very Short Answer (ANY TWO) (4)**

- i) Define Nursing by Virginia Henderson
- ii) List the Indication of Mouth Care
- iii) Define Health
- iv) Enlist Sources of Data

**SECTION -B**

**Q.5 Multiple Choice Question (7)**

- I) On the medical prescription, PRN indicates
  - a) When advice
  - b) Immediately
  - c) When Necessary
  - d) Now
- II) Which theory explain the Nurse-patient relationship concepts like orientation, identification, exploitation and resolution?
  - a) Leininger
  - b) Hildegard Peplau
  - c) Dorothea Orem
  - d) Betty Neumann
- III) Vivid dreaming occurs in which stage of sleep
  - a) Stage I Non-REM
  - b) Stage II Non-REM
  - c) Rapid Eye Movement stage
  - d) Delta stage
- IV) To ensure homogenization when diluting powdered medication in a vial, the Nurse should
  - a) Shake the vial vigorously
  - b) Roll the vial gently between the palms
  - c) Invert the vial and let it stand for 1 minute
  - d) Do nothing after adding the solution to the vial
- V) DAMA indicates
  - a) Discharge And Medical Advice
  - b) Discharge Against Medical Advice
  - c) Doctor And Medical Advice
  - d) Discharge And Medicine Administration

- VI) In brain death all are seen except
- a) Diabetes insipidus
  - b) Apnea
  - c) Constricted pupils
  - d) Pulse rate unresponsive to atropine
- VII) A client who is unconscious needs frequent mouth care, while providing mouth care the Nurse should provide the best position of the client is \_\_\_\_\_
- a) Side lying
  - b) Fowler's
  - c) Prone
  - d) Supine

**Q.6 Long Answer Question ( ANY ONE ) (15)**

- a) Define Rigor Mortis (2)
- b) Enlist the clinical signs of Death (3)
- c) Explain about care of Dying patient. (5)
- d) Discuss on the role of Nurse in counselling and supporting grieving relatives (5)

OR

- a) Define abscond (2)
- b) List down the types of discharge (3)
- c) Write about discharge procedure of client. (5)
- d) Discuss the role of Nurse in care of unit after discharge (5)

**Q.7 Short Answer Questions (ANY THREE ) (12)**

- i) Factors influencing Medication
- ii) Biomedical waste management
- iii) Uses of Personal Protective Equipment
- iv) Comfort devices
- v) Pain scale
- vi) Principles of body mechanics

**Q.8 Very Short Answer (ANY TWO) (4)**

- i) Define CPR
- ii) Manifestations of stress
- iii) Define Nursing theory
- iv) What is Aphasia

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**BACHELOR OF SCIENCE (NURSING) (CBCS-2022)**  
**B.SC. (NURSING) SEM-II : WINTER : 2024**  
**SUBJECT: NURSING FOUNDATION-I & II**

Day : Friday  
Date : 10/01/2025

**W-25868-2024**

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) Write MCQ in answerbook.
- 4) Answer to both the sections should be written in **SEPARATE** answer book.

**SECTION - A**

**Q.1 MCQ :**

**(1x06 = 06) (06)**

- 1 Health belief in Health Belief Model usually influence \_\_\_\_\_.
  - a) Health status
  - b) Health behaviours
  - c) Health outcome
  - d) Health determinants
- 2 Florence Nightingale was born in \_\_\_\_\_.
  - a) 1820
  - b) 1840
  - c) 1920
  - d) 1940
- 3 Letter, e-mail, telephone are examples of \_\_\_\_\_.
  - a) Message
  - b) Feedback
  - c) Channel
  - d) Encoding
- 4 The primary source of data collection is the \_\_\_\_\_.
  - a) Chart
  - b) Doctor
  - c) Family
  - d) Patient
- 5 Another name for the supine position is the \_\_\_\_\_.
  - a) Lithotomy
  - b) Sims
  - c) Knee-chest
  - d) Recumbent
- 6 The normal amount of urine excreted in 24 hours is \_\_\_\_\_.
  - a) 1000-2000 ml
  - b) 1500-2500 ml
  - c) 500-700 ml
  - d) 500-1000 ml

PTO

- Q.2 Write Essay Type Question on ANY ONE of the following : (1x10 = 10) (10)
- a) Define Pulse. (02)
  - b) Explain characteristics of Pulse. (04)
  - c) Write Nursing care of patient with altered vital signs. (04)

OR

- a) Define steam inhalation. (02)
- b) List down the purposes & Indications of steam inhalation. (04)
- c) Discuss in detail the Nursing responsibilities while giving steam inhalation. (04)

- Q.3 Write Short Answer on ANY THREE of the following : (3 x 5 = 15) (15)
- a) Nursing diagnosis.
  - b) Code of Ethics in Nursing
  - c) Purposes of bed making
  - d) Steps of back care
  - e) Levels of Prevention

- Q.4 Write Very Short Answer on ANY THREE of the following : (3 x 2 = 06) (06)
- a) Indications of Urinary catheterization
  - b) List down the Complications of NG tube Feeding
  - c) Indications of O<sub>2</sub> administration
  - d) Types of records
  - e) Indications for mouth care

SECTION - B

- Q.5 MCQ : (1x07 = 07) (07)

- 1 PPE stands for
  - a) Personal Physical Examination
  - b) Personal Physical Equipments
  - c) Personal Protective Equipments
  - d) Personal Psychological Examination.
- 2 LAMA discharge means \_\_\_\_\_
  - a) Leave against medical advice
  - b) Large amount medicine administrations
  - c) Leave about management advice
  - d) Leave after medicine administration
- 3 Safety device is \_\_\_\_\_
  - a) Bed block
  - b) Air cushion
  - c) Sand bag
  - d) Side rails
- 4 Which of the following Nursing intervention is appropriate when an IV infusion infiltrates?
  - a) Elevate the site
  - b) Discontinue the infusion
  - c) Attempt to flush the tube
  - d) Apply warm, moist compress

- 5 Which of the following is NOT considered as metaparadigm of Nursing?
- a) Person
  - b) Environment
  - c) Health
  - d) Diagnosis
- 6 The yellow bag contains which type of hospital waste \_\_\_\_\_
- a) Glass items
  - b) Rubber tubings
  - c) Human and animal waste
  - d) Metals
- 7 Which of the following is considered as the most important aspect of hand washing?
- a) Soap
  - b) Water
  - c) Friction
  - d) Time

- Q.6 Write Essay Type Question on **ANY ONE** of the following : (1x10 = 10) (10)
- a) Define infection. (02)
  - b) Explain the chain of transmission of infection. (04)
  - c) Explain how you will prevent occurrence of nosocomial infection in your ward. (04)

OR

- a) Define wound. (02)
  - b) Write about Classification of wound. (04)
  - c) Explain wound healing process. (04)
- Q.7 Write Short Answer on **ANY THREE** of the following : (3 x 5 = 15) (15)
- a) Types of hospital waste
  - b) Comfort devices
  - c) Care of Death
  - d) Nursing management of patient with pain
  - e) Types of discharge from hospital
- Q.8 Write Very Short Answer on **ANY THREE** of the following : (3 x 2 = 06) (06)
- a) Storage and maintenance of drugs
  - b) Define Hand washing
  - c) List the Range of motion exercises
  - d) Pain scale
  - e) Color coding bags for hospital waste segregation

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BACHELOR OF SCIENCE (NURSING) (CBCS-2022)  
B.SC. (NURSING) SEM-II : SUMMER : 2024  
SUBJECT: NURSING FOUNDATION-I & II

Day : Thursday  
Date : 04/07/2024

S-25868-2024

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) Write MCQ in answerbook.
- 4) Answer to both the sections should be written in **SEPARATE** answer book.

**SECTION - A**

**Q.1 MCQ :**

(1x06 = 06) (06)

- 1 Germ theory of diseases had given the concept of health which states \_\_\_\_\_
  - a) Biomedical concept
  - b) Holistic concept
  - c) Ecological concept
  - d) Psychosocial concept
- 2 The founder of Modern Nursing is \_\_\_\_\_
  - a) Virginia Henderson
  - b) Sister Diana
  - c) Sister Callista Roy
  - d) Florence Nightingale
- 3 Communication is a non-stop \_\_\_\_\_
  - a) Progress
  - b) Program
  - c) Process
  - d) Plan
- 4 The most important Nursing action before gastrostomy feeding is \_\_\_\_\_
  - a) Check Vital Signs
  - b) Assess the patency of tube
  - c) Measure residual feeding
  - d) Check the placement of the tube
- 5 Example of Objective Data is \_\_\_\_\_
  - a) Nausea
  - b) Vomiting
  - c) Joint pain
  - d) Headache
- 6 Which of the following will alert the Nurses an early sign of hypoxia \_\_\_\_\_
  - a) Client is tired and dyspneic
  - b) The client is coughing out blood
  - c) The clients heart rate is 50 BPM
  - d) The client is frequently turning from side to side

PTO

- Q.2** Write Essay Type Question on **ANY ONE** of the following : (1x10 = 10) (10)
- a) Define communication. (02)
  - b) Explain types of communication. (04)
  - c) Describe the communication Barriers and factors influencing effective communication. (04)

**OR**

- a) Define Nursing Process. (02)
  - b) Explain the steps of Nursing Process. (04)
  - c) Describe in detail about Nursing Diagnosis . (04)
- Q.3** Write Short Answer on **ANY THREE** of the following : (3 x 5 = 15) (15)
- a) Qualities of Nurse
  - b) Purposes of Records of reports
  - c) Steps of Back Care
  - d) Methods of Oxygen Inhalation
  - e) Levels of Prevention
- Q.4** Write Very Short Answer on **ANY THREE** of the following : (3 x 2 = 06) (06)
- a) Nursing definition by Virginia Henderson
  - b) Enlist codes of Ethics
  - c) Indications of mouth care
  - d) Complications of NG tube feeding
  - e) Composition of urine

**SECTION – B**

- Q.5 MCQ :** (1x07 = 07) (07)

- 1 Health care associated infection is also known as \_\_\_\_\_
- a) Natural infection
  - b) Nosocomial infection
  - c) Vector born infection
  - d) Communicable infection
- 2 PPE stands for
- a) Personal Physical Examination
  - b) Personal Physical Equipments
  - c) Personal Protective Equipments
  - d) Personal Psychological Examination.
- 3 LAMA discharge means \_\_\_\_\_
- a) Leave against medical advice
  - b) Large amount medicine administrations
  - c) Leave about management advice
  - d) Leave after medicine administration
- 4 In brain death all are seen except \_\_\_\_\_
- a) Diabetic mellitus
  - b) Apnea
  - c) Constricted pupils
  - d) Pulse rate unresponsive to atropine

- 5 Which of the following nursing intervention is appropriate when an IV infusion infiltrates?
- Elevate the site
  - Discontinue the infusion
  - Attempt to flush the tube
  - Apply warm, moist compress
- 6 Which of the following is NOT considered as metaparadigm of Nursing?
- Person
  - Environment
  - Health
  - Diagnosis
- 7 Lactated Ringer's solution is contraindicated in \_\_\_\_\_
- Hypovolemia
  - Burns
  - Lactic acidosis
  - Fluid lost as bile or diarrhea
- Q.6 Write Essay Type Question on ANY ONE of the following : (1x10 = 10) (10)
- Define asepsis. (02)
  - Explain the chain of transmission of infections. (04)
  - Describe the role of Nurse in prevention of infection. (04)
- OR**
- Define Medication. (02)
  - Enlist the different routes of medicine administration. (04)
  - Discuss the rights of medication in detail. (04)
- Q.7 Write Short Answer on ANY THREE of the following : (3 x 5 = 15) (15)
- Immunity
  - Hospital waste management
  - Factors affecting sleep
  - Assessment of Pain
  - Discharge procedure
- Q.8 Write Very Short Answer on ANY THREE of the following : (3 x 2 = 06) (06)
- Define Disinfectant
  - Care of patient with plaster cast
  - Steps of hand washing
  - Hazards of immobility
  - Purposes of patient education

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BACHELOR OF SCIENCE (NURSING) (CBCS-2022)  
B.SC. (NURSING) SEM-II :SUMMER : 2023  
SUBJECT : NURSING FOUNDATIONS-I & II

Day : Wednesday

Time : 10:00 AM-01:00 PM

Date : 26-07-2023

S-25868-2023

Max. Marks : 75

**N.B.**

- 1) All questions are **COMPULSORY**.
- 2) Figures to the **RIGHT** indicate **FULL** marks.
- 3) Write MCQ in answerbook.
- 4) Answer to both the sections should be written in **SEPARATE** answer book.

**SECTION - A**

**Q.1 MCQ :**

(1x06 = 06) (06)

- 1 The normal range for an oral temperature is \_\_\_\_\_
  - a) 96 °F – 98 °F
  - b) 97 °F – 99.5 °F
  - c) 98.6 °F – 99.6 °F
  - d) 97.6 °F – 98.6 °F
- 2 Documentation is defined as anything \_\_\_\_\_
  - a) Written
  - b) Oral
  - c) Symbol
  - d) Diagram
- 3 Which of the following ethical principles refers to the duty not to harm
  - a) Beneficence
  - b) Nonmaleficence
  - c) Fidelity
  - d) Veracity
- 4 Bright red colour of urine is due to \_\_\_\_\_
  - a) Bile salt
  - b) Bile pigment
  - c) Urobilinogen
  - d) Fresh blood
- 5 Which of the following oxygen Inhalation method can deliver 100 % oxygen at 15 LPM?
  - a) Nasal Cannula
  - b) Simple face mask
  - c) Non-rebreather mask
  - d) Partial rebreather mask
- 6 \_\_\_\_\_ is the most common problem in TUBE FEEDING.
  - a) Diarrhea
  - b) Infection
  - c) Hyperglycemia
  - d) Vomiting

PTO

- Q.2** Write Essay Type Question on **ANY ONE** of the following : (1x10 = 10) (10)
- a) Define Nursing. (02)
  - b) Describe qualities of Nurse. (04)
  - c) Explain the roles and responsibilities of Nurse in detail. (04)

**OR**

- a) Define Oxygen Inhalation. (02)
  - b) Explain purposes of oxygen inhalation. (04)
  - c) Role of Nurse while patient is on oxygen therapy. (04)
- Q.3** Write Short Answer on **ANY THREE** of the following : (3 x 5 = 15) (15)
- a) Functions of hospital
  - b) Levels of prevention
  - c) Maslow's hierarchy
  - d) Purposes of back care
  - e) Nursing assessment in Nursing process

- Q.4** Write Very Short Answer on **ANY THREE** of the following : (3 x 2 = 06) (06)
- a) Define Pyrexia.
  - b) Purposes of Bed making.
  - c) Define Nursing process .
  - d) Hypovolemia
  - e) Define Health.

**SECTION – B**

- Q.5 MCQ :** (1x07 = 07) (07)

- 1 Safety device is \_\_\_\_\_
  - a) Bed block
  - b) Air cushion
  - c) Sand bag
  - d) Side rails
- 2 The best primary method to prevent infection is \_\_\_\_\_
  - a) Medicine
  - b) Hand washing
  - c) Isolation
  - d) Hand sanitizer
- 3 What is the maximum duration of time the Nurse allows an IV bag of solution to infuse in to a patient ?
  - a) 6 hours
  - b) 12 hours
  - c) 18 hours
  - d) 24 hours
- 4 Which of the following clinical finding indicates the patient is experiencing hypokalemia?
  - a) Edema
  - b) Muscle spasms
  - c) Kussaumal breathing
  - d) Abdominal distension

- 5 The yellow bag contains which type of hospital waste \_\_\_\_\_
- Glass items
  - Rubber tubings
  - Human and animal waste
  - Metals
- 6 Which of the following is considered as the most important aspect of hand washing?
- Soap
  - Water
  - Friction
  - Time
- 7 Which of the following is known to have a role in wound healing?
- Vitamin A
  - Vitamin K
  - Vitamin C
  - Vitamin B complex
- Q.6** Write Essay Type Question on **ANY ONE** of the following : **(1x10 = 10)** **(10)**
- Define wound. **(02)**
  - Classification of wound. **(04)**
  - Describe the process of wound healing. **(04)**
- OR**
- Define medico legal cases. **(02)**
  - Classify the types of discharge. **(04)**
  - Explain Care of patient unit after discharge. **(04)**
- Q.7** Write Short Answer on **ANY THREE** of the following : **(3 x 5 = 15)** **(15)**
- Safety devices
  - Biomedical waste management
  - Types of infection
  - Physiology of sleep
  - Glasgow Coma Scale
- Q.8** Write Very Short Answer on **ANY THREE** of the following : **(3 x 2 = 06)** **(06)**
- Define Restraints.
  - Enlist the factors of safe Environment
  - Types of Injection
  - Define Grief.
  - Enlist Clinical signs of Death

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