

BACHELOR OF SCIENCE (NURSING) (2019 COURSE)

F. Y. B. Sc. (Nursing) : WINTER- 2022

SUBJECT : NUTRITION & BIOCHEMISTRY

Day : Wednesday

Time : 10:00 AM-01:00 PM

Date : 16-11-2022

W-22422-2022

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.

SECTION-I (NUTRITION) (45 Marks)

Q.1 Write short notes on any **SIX** of the following: **(12)**

- a) Define RDA (Recommended daily allowance)
- b) Write 2 points regarding role of nutrition in maintaining health.
- c) List down the 2 functions of carbohydrates.
- d) Define amino acids. Name the types of amino acids.
- e) List down the dietary sources of fat.
- f) Write down the classification of minerals.
- g) Define Body Mass Index (BMI).
- h) Pica.

Q.2 Write short answers on any **FIVE** of the following: **(20)**

- a) Discuss factors that affects food and nutrition.
- b) Explain Integrated child development scheme.
- c) Explain the functions of Vitamin D.
- d) Discuss maintenance of fluid and electrolyte balance.
- e) Classify proteins with examples.
- f) Explain factors affecting basal Metabolic Rate (BMR).
- g) Discuss role of Nurse in Nutrition.

Q.3 Write long questions on any **ONE** of the following: **(13)**

- a) Define cooking. **(02)**
- b) Explain various methods of cooking. **(05)**
- c) Discuss prevention of food adulterations Act. (PFA). **(06)**

OR

Q.3

- a) Define balanced diet. **(02)**
- b) Discuss menu planning for adults. **(05)**
- c) Explain any 3 therapeutic diets in detail. **(06)**

SECTION-II (BIOCHEMISTRY) (30 Marks)

Q.4 Write short answers on any **FOUR** of the following: **(08)**

- a) Functions of enzymes.
- b) Active transport.
- c) Functions of cytoskeleton.
- d) Write short note on ELISA.
- e) Deficiency symptoms of Vitamin B2.
- f) B-lymphocytes.

P. T. O.

- Q.5** Write short answers on any **THREE** of the following: **(12)**
- a) Function and deficiency manifestations of Vitamin A.
 - b) Describe role of kidneys in the maintenance of acid-base balance.
 - c) Describe classification of lipids.
 - d) Describe glycolysis with its energetics and regulation.
 - e) Describe humoral immune response.

- Q.6** Write long questions on any **ONE** of the following: **(10)**
- a) Describe urea cycle with its regulation. **(05)**
 - b) Explain transamination and deamination. **(05)**

OR

- Q.6**
- a) Explain basic structure of amino acid. **(02)**
 - b) Describe structural organization of proteins. **(04)**
 - c) Explain Plasma proteins. **(04)**

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