

F.Y. B.Sc. (NURSING) (2007 / 2019 COURSE): *Winter-2021*  
SUBJECT: NUTRITION & BIOCHEMISTRY

Day: *Tuesday*  
Date: *12-10-2021*

*W-2021-22422*

Time: *10:00AM-TO 1:00*  
Max. Marks: 75 *P.M*

**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-I**

**Q.1** Write short notes on any **FIVE** of the following: (10)

- a) Define Therapeutic Diet
- b) Food Pyramid
- c) List down 4 macro minerals
- d) Sources of folic acid
- e) Define Rickets
- f) List down four sources of Carbohydrates
- g) Roasting

**Q.2** Write short notes on any **FOUR** of the following: (16)

- a) Classify different cooking methods
- b) Discuss functions of protein
- c) Explain Midday meal program
- d) Discuss food adulteration
- e) Classify food groups according to nutritive value
- f) Discuss role of nurse in nutrition

**Q.3** Long answer Questions (any **ONE**) (12)

- a) Define Vitamin (02)
- b) Classify Vitamins in detail (05)
- c) Explain functions of Vitamin D (05)

**OR**

- a) Define Basal metabolic rate ( BMR) (02)
- b) Explain factors affecting Basal metabolic rate (05)
- c) Discuss maintenance of fluid and electrolyte balance (05)

**SECTION-II**

**Q.4** Write short notes on any **FIVE** of the following: (10)

- a) Bicarbonate buffer system
- b) Functions of endoplasmic reticulum
- c) Diffusion
- d) Tight junctions
- e) Microtubules
- f) Metabolic acidosis
- g) Deficiency symptoms of Vitamin K

**P. T. O.**

- Q.5** Write short notes on any **FOUR** of the following: (16)
- a) Explain structure and classification of immunoglobulins
  - b) Describe lipoproteins
  - c) Genetic code
  - d) Describe cellular immune response
  - e) Describe different types of RNAs
  - f) Describe structure and functions of nucleus

- Q.6** Long answer Questions (any **ONE**) (11)
- a) Describe the different blood buffers present in the body (05)
  - b) Describe role of lungs and kidneys in the maintenance of acid base balance. (06)

**OR**

- a) Define carbohydrates (02)
- b) Explain classification of carbohydrates with examples in detail (09)

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