

**F.Y. B.SC. (NURSING) (2007 COURSE) : SUMMER - 2019**

**SUBJECT : NUTRITION AND BIOCHEMISTRY**

Day : Friday

Date : 19/04/2019

**S-2019-4324**

Time : 10.00 A.M. TO 01.00 P.M.

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.

**SECTION – I (NUTRITION)**

- Q. 1** Write short notes on **ANY FIVE** of the following: (10)
- a) List down four examples of soft solid diet
  - b) Define toasting
  - c) Tetany
  - d) List down food sources of Fat
  - e) Define nutrition
  - f) Beriberi
  - g) Dietary Fiber
- Q. 2** Short Answer Questions: (**ANY FOUR**) (16)
- a) Note on integrated child development services.
  - b) Advantages of breast feeding.
  - c) Write a note on food adulteration.
  - d) Functions of carbohydrates.
  - e) Factors affecting basal metabolic rate.
  - f) Explain nutritional classification of food with examples.
- Q. 3** Long Answer Questions: (**ANY ONE**)
- a) i) Define Vitamins. (02)  
ii) Classify Vitamins. (04)  
iii) Describe Vitamin 'A' in detail. (06)
- OR**
- b) i) Classify proteins in detail with examples. (06)  
ii) Explain functions of protein in detail. (06)

**SECTION – II (BIOCHEMISTRY)**

- Q. 4** Write short notes on **ANY FIVE** of the following: (10)
- a) Deficiency symptoms and sources of Vitamin 'C'
  - b) Write a note on disaccharides
  - c) Lysosomes
  - d) Osmosis
  - e) Competitive inhibition of enzymes
  - f) Secondary structure of protein
  - g) Write a note on essential fatty acids
- Q. 5** Short Answer Questions: (**ANY FOUR**) (16)
- a) ELISA Test
  - b) Features of the Watson-Crick model of DNA.
  - c) Lipoproteins.
  - d) Structure and functions of t-RNA.
  - e) Plasma proteins.
  - f) Isoenzymes and its importance.
- Q. 6** Long Answer Questions: (**ANY ONE**) (11)
- a) Give outline of TCA. What are its regulatory steps? What is the energy yield of this pathway?
- OR**
- b) Classify lipids with suitable examples.

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