BACHELOR OF SCIENCE (NURSING) (2019 COURSE)

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

SUBJECT: NUTRITION & BIOCHEMISTRY

Day: Wednesday Date: 01-06-2022 S-22422-2022

Time: 10:00 AM-01:00 PM

Max. Marks: 75

N.B.:

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

SECTION-I (NUTRITION) (45 Marks)

Q.1 Write short notes on any SIX of the following:

- a) Define nutrients.
- b) Artificial feeding.
- c) List down four macro minerals.
- d) List down the rich sources of vitamin C.
- e) Define Beriberi.f) Define food pyramid.
- g) Define toxicity in foods.
- **h)** List down the types of food preservation.

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

- a) Discuss different cooking methods.
 - **b)** Explain the functions of carbohydrates.
 - c) Describe regulation of water in the body.
 - d) Write a note on food adulteration.
 - e) Explain role of nurse in planning therapeutic diet.
- f) Discuss menu planning for the elderly.
- g) Describe metabolism and deficiencies of proteins.

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

a) Define Lipids.

(02)

(12)

b) Discuss functions of lipids.

(05)

c) Classify food groups according to nutritive value.

(06)

OR

Q.3 a) Define basal metabolic rate (BMR). (02)

b) Explain factors affecting basal metabolic rate. c) Discuss Vitamin A deficiency programme.

(05)

(06)

SECTION-II (BIOCHEMISTRY) (30 Marks)

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

- a) Competitive inhibition of enzymes.
- **b)** Write a note on essential fatty acids.
- c) Sodium- Potassium pump
- d) Functions of Golgi complex.
- e) Facilitated diffusion.
- f) Deficiency symptoms of Vitamin D.

P. T. O.

	a)	Discuss various factors affecting enzyme activity.	
	b)	Describe Watson and Crick model of DNA.	
	c)	Describe role of lungs in the maintenance of acid-base balance.	
	d)	Fluid-mosaic model of cell membrane.	
	e)	Describe structure and classification of immunoglobulins.	
Q.6		Write long questions on any ONE of the following:	(10)
	a)	Describe beta-oxidation of fatty acids.	(07)
	b)	Mention number of ATPs formed by oxidation of palmitic acid by beta-oxidation.	(03)
		OR	
Q.6	a)	Describe in detail about TCA/ Kreb cycle?	(06)
	b)	Describe energetics and regulation of the TCA cycle.	(04)
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Write short answers on any **THREE** of the following:

Q.5

(12)