

## PAA-21262-N

Seat No. \_\_\_\_\_

## First Year (Basic) B. Sc. (Nursing) Examination August - 2018

## **Nutrition & Biochemistry**

Time: 3 Hours] [Total Marks: 7			
Instructions: (1) Write each section in separate answer book. (2) Attempt part of a question at one place.			
SECTION - I (Nutrition) (45 Marks)			
1	Lon	g essay : (any <b>one</b> )	1×15=15
	(1)	(a) Define vitamins.	2
		(b) Classification of vitamins.	3
		(c) Write functions of Vitamin A, sources and	10
		deficiency of Vitamin A.	
OR			
	(2)	(a) What are the principles of cooking?	5
		(b) Explain common methods of cooking.	10
2	Wri	te short-notes on following: (any three)	5×3=15
	(1)	Measurement of Energy	
	(2)	Functions of proteins	
	(3)	Nutritional problems in India	
	(4)	Water distribution and Water Loss	
	(5)	What are the sources of Fats ?	
3	Briefly answer the following: (any five) 3×5		
	(1)	Body Mass Index	
	(2)	Weaning	
	(3)	Define water intoxication	
	(4)	Rickets	
	(5)	Enlist various dietary source of Zinc	
	(6)	BMR	
	(7)	Write any two functions of fat.	
PAA-21262-N ] 1			Contd

## SECTION - II (Biochemistry) (30 Marks)

- 1 Long essay: (any **one** out of two)
  - (1) Explain in Detail about TCA cycle, it's energetics and regulation
  - (2) Write in detail about the synthesis and breakdown of "Haem" and the disorders associated with Bilirubin metabolism
- 2 Write notes on: (any three out of five)

 $5 \times 3 = 15$ 

 $10 \times 1 = 10$ 

- (1) Electrophoresis
- (2) Glycolysis
- (3) Urea cycle
- (4) Protein metabolism
- (5) Transport of lipids.
- 3 Short answers: (any five out of six)

 $1 \times 5 = 5$ 

- (1) Functions of lysosomes
- (2) Significance of HMP shunt
- (3) Mention the types of immunoglobulins
- (4) Define co-enzymes
- (5) Golgi complex
- (6) Name the specialized products formed from glycine.