

### **BRAINWARE UNIVERSITY**

# Term End Backlog Annual Examination, March- 2023

### Programme - Bachelor of Science in Nursing

### Course Name - Nutrition and Biochemistry

### **Course Code – BNS102**

(Year - I)

Time allotted: 3 hrs.

Full Marks: 75

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable. Write answer of Section – A and Section –B in separate Answer booklet.]

#### Section - A

1. W	rite short answer on any four of the following:	$4 \times 5 = 20$
(I)	National Nutritional policy.	[5]
(II)	Classification of carbohydrate.	[5]
(III)	Essential fatty acid.	[5]
(IV)	Pateurization of milk.	[5]
(V)	ICDS.	[5]
2. Write long answer on any one of the following:		$1 \times 10 = 10$
(I)	Classify protein. Describe the digestion, absorption, metabolism & importance of protein food. Write the dietary allowances (RDA) & caloric value of protein.	[2+6+2= 10]
(II)	Describe micro & macro elements of nutrition.	[5+5= 10]
3. Write long answer on any one of the following:		1 x 15 = 15
(I)	a) What do you mean by mineral?	[2+4+4+5=15]
	b) Classify the minerals with examples.	
(II)	<ul><li>c) Mention the rich sources &amp; deficiency disorder of mineral.</li><li>a) Write down the causes of dehydration.</li></ul>	[3+4+4+4= 15]
	b) What are the signs & symptoms of dehydration?	
	c) Write down the importance of electrolyte potassium in human body.	

d) Describe the features of potassium imbalance.

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### Section -B

4. Write short answer on any two of the following:		$2 \times 5 = 10$
(1)	Mitochondria.	[5]
(11)	Alkalosis.	[5]
(111)	Antioxidants.	[5]
5. W	rite long answer on any <i>two</i> of the following:	2 x 10= 20
<b>(I)</b>	Explain active and passive transport mechanism with labelled diagram.	[5+5=10]
(11)	Define Gluconeogenesis. Describe in detail about the pathway of Gluconeogenesis?	[2+8= 10]
(111)	What is normal serum calcium level? How is it regulated? Add a note on hypercalcemia and hypocalcemia.	[2+3+5=10]