

BRAINWARE UNIVERSITY

Term End Annual Examination 2020 - 21

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.	Write short answer on any four of the following:	$4 \times 5 = 20$
(1) Antioxidants.	[5]
(I	I) Mid day meal programme.	[5]
(11	I) Classification of carbohydrate.	[5]
(IV	7) Principles of menu planning.	[5]
()	7) Therapeutic Diet.	[5]
(V	I) Food borne disease.	[5]
2.	Write long answer on any one of the following:	1 x 10 = 10
(1	Define Gluconeogenesis. Describe in detail about the pathway of Gluconeogenesis?	[2+8=10]
(I	 Explain sources, factors affecting absorption and the deficiency manifestations of Iron. 	[3+4+3 = 10]
3.	Write long answer on any one of the following:	$1 \times 15 = 15$
(1	Name the ketone bodies. Explain how ketone bodies are synthesize and utilized in our body. Enlist four function of bilirubin.	[3+8+4 = 15]
(I	 Define and classify the vitamins. Write sources, daily requirements, function and deficiency manifestation of Vit A. 	[2+5+8 = 15]

Section -B

1.	Write short answer on any two of the following:	$2 \times 5 = 10$
(I)	Mitochondria.	[5]
(II)	Acidosis.	[5]
(III)	Glucose tolerance test.	[5]
2. Write long answer on any two of the following:		2 x 10= 20
(I)	Draw a eukaryotic cell and outline the functions of its organelles.	[2+8=10]
(II)	What is immunoresponse? Describe the mechanism of antibody production.	[4+6= 10]
(III)	What are omega 3 fatty acids? Give an account of three major such fatty acids. What are omega 6 fatty acids and their sources? (OMIT) Why are Unsaturated fatty acids called 'Healthy Fats'?	[3+3+4 = 10]