



BRAINWARE UNIVERSITY

Term End Examination 2023-2024 Programme – B.Sc.(FND)-Hons-2023 Course Name – Food Science Course Code - BFD10101 (Semester I)

398, Ramkrishnapur Road, Barasel Kolkata, West Bengal-700125

Full Marks: 60	Full	Marks	:	60
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Time: 2:30 Hours

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

Group-A (Multiple Choice Type Question) 1 x 15=15 Choose the correct alternative from the following: (i) Which monosaccharide is a component of lactose (milk sugar)? a) Glucose b) Fructose c) Galactose d) Sucrose (ii) Which of the following conditions can result from a deficiency of Vitamin A? a) Rickets b) Scurvy c) Pellagra d) Night blindness (iii) Which carbohydrate is commonly found in milk and dairy products? a) Fructose b) Maltose c) Lactose d) Sucrose (iv) Determine the reagent used to create Oxime from glucose . b) Hydroxyl Amine a) Chromic Acid d) Tollen's reagent c) Sulphuric Acid (v) Name the vitamin can help enhance the absorption of non-heme iron from plant-based foods. b) Vitamin B12 a) Vitamin A d) Vitamin C c) Vitamin D (vi) Select the statement for Amino Acid Score of a protein. b) A measure of the protein's digestibility in a) A measure of the protein's taste and flavor the body c) A measure of the protein's overall nutritional quality based on its essential A measure of the protein's caloric content amino acid profile (vii) Select the role that antioxidants play in preventing rancidity? a) They neutralize free radicals and inhibit b) They promote the breakdown of fats and

oils

(viii)	hey stimulate the growth of d) nicroorganisms They enhance enzymatic activity ect the organ that plays a central role in regulating water balance by adjusting the ume and concentration of urine.			
	a) Liver			
	c) Heart	b) Kidneys		
(ix)	Select the main function of dietary fiber in the	d) Stomach		
	a) To provide energy			
	c) To support the absorption of vitamine	b) To aid in protein digestion		
(x)	What is the condition caused by severe Vitamin weakened bones?	d) To promote regular bowel movements D deficiency, characterized by soft and		
	a) Rickets	b) Scurvy		
Yellah	c) Beriberi	مال با نا با		
(xi)	Which vitamin is synthesized in the skin upon e	xposure to sunlight?		
	a) Vitamin C	b) Vitamin D		
	c) Vitamin B12	d) Vitamin A		
(xii)	Select the active coenzyme form of Vitamin B2			
<i>(</i>)	a) Riboflavin triphosphate (FTP) c) Riboflavin mononucleotide (FMN)	b) Riboflavin tetraphosphate (FTPP) d) Riboflavin monophosphate		
(XIII)	Which condition is associated with a severe def	ficiency of vitamin D in children ?		
	a) Scurvy	b) Beriberi		
(viv)	c) Rickets	d) Anaemia		
(XIV)	Select the active coenzyme form of Vitamin B1.	art vollagi jaivi		
	a) Thiamine disulfide (TDS)	b) Thiamine hydrochloride (THC)		
(xv)	c) Thiamine pyrophosphate (TPP) HDL is often referred to as: ?	d) Thiamine monophosphate (TMP)		
	a) "Bad" Cholesterol c) Triglycerides	b) "Good" Cholesterol d) VLDL		
		Becamilia		
	Grou	ір-В		
	(Short Answer T	ype Questions) 3	x 5=15	
2 0	S. Carlotte and S. Carlotte an			
2. D	efine Saponification Value . iscuss "Hyponatremia"		(3)	
4 F	xplain "Zwitter-ion".		(3)	
7	Aplant Zwitter-ion .		(3)	
5. W	rite down the WHO classification of Xeropthalm	ia.	(3)	
6. E	xplain the common sources of dietary fiber, and ber?	what is the basic composition of dietary	(3)	
	0			
D	ustrate why is drinking water essential for huma ody is composed of water, on average? How doe revent dehydration or overhydration?	n health? What percentage of the human s the body regulate water balance to	(3)	
	Grou	ір-С		
	(Long Answer T	BURN - Sec	x 6=30	
		the anti-consequent of the burner of the state of the sta		
7.	llustrate the "Osazone reaction" of carbohydrate	e	(5)	
8. 1	Describe the bio-chemical role of Vitamin C.		(5)	
9. 1	explain the physiological relationship between c	alcium and vitamin D.	(5)	
10. 1	ilustrate the bio-chemical role of thiamine.		(5)	
11.	low is iron absorbed in our body?		(5)	

12. Distinguish th	De types	(5
Justify the into	ne types and functions of dietary fiber. OR terrelationship between Calcium and parathormone.	(5
