## F.Y.B. Sc. (Nyssing) 2007 (ourse: Winter-2018 subject: NUTRITION AND BIOCHEMISTRY

Day:	Ma	onday.	Time:		
Date:	08	-10-2018 W-2018-4017	Max Marks. 15		
N.B.	:				
	1)	All questions are <b>COMPULSORY</b> .			
	2)	Put a tick mark in√appropriate box.			
	3)	Use <b>BLACK/BLUE</b> ball pen only.	utac		
	<b>4) 5)</b>	Section-I should be completed within 15 min Each question carry <b>ONE</b> mark.	utes.		
<del>,</del>	6)	Students will not be allotted marks if he/she amarked.	overwrites strikes or put ink or cross		
Seat	No		Total Marks Obtained:		
Jr. S	uper	visor's Signature	Examiners Signature:		
M C	Q.	SECTION-I			
0.1		Chemically fats and oils are			
Q.1	a)	Acids			
	b)	Alcohols			
	c)	Esters			
	d)	Alkenes			
Q.2		A disease kwashiorkor is caused by deficiency of	of		
	a)	Vitamins			
	b)	Fats			
	c)	Proteins			
	d)	Carbohydrates			
Q.3		Biological method of food preservation is			
	a)	Freezing			
	b)	Drying			
	c)	Fermentation			
	d)	Adding salt			
Q.4		Cooking food uncovered without liquid or fat			
	a)	Moist heat cooking			
	b)	Deep frying			
	c)	Dry heat cooking			
	d)	Pressure cooking	PTO		

Q.5		Keratomalacia deficiency disease caused by	
	a)	Vitamin A	
	b)	Vitamin C	
	c)	Vitamin D	
	d)	Vitamin E	
Q.6		1 gram fat yield calories	
	a)	4 Calories	
	b)	9 Calories	
	c)	2 Calories	
	d)	5 Calories	
<b>Q.</b> 7		Eggs, milk and meat are good source of	
	a)	Carbohydrates	
	b)	Mineral	
	c)	Protein	
	d)	Fat	
<b>Q.8</b>		Vitamin needed to prevent a birth defect called spina bifida	
	a)	Vitamin D	
	b)	Vitamin A	
	c)	Folate	
	d)	Vitamin E	
Q.9		Body need vitamins and minerals for	
	a)	Energy	
	b)	Metabolic reactions	
	c)	Insulate body organs	
	d)	Withdraw heat from body	
Q.10		Amylases in saliva begins breakdown of carbohydrates into	
	a)	Fatty acids	
	b)	Polypeptides	
	c)	Amino acids	
	d)	Simple sugars	
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= "	Q.11		Activation or inactivation of certain key regulatory enzymes is	
			accomplished by covalent modification of the amino acids	
		a)	Tyrosine	
		b)	Phenylalanine	
		c)	Lysine	
		d)	Serine	
	Q.12		Which of the following vitamins would most likely become deficient in a person who developed a completely vegetarian lifestyles	
		a)	Vitamin C	
		b)	Niacin	
		c)	Cobalamin	
		d)	Vitamin E	
	Q.13		In alkaptonuria, which of the following accumulates abnormally in the urine?	
		a)	Phenylalanine	
		b)	Acetoacetate	
		c)	Homogentisate	
		d)	Fumarate	
	Q.14		Which of the following glycolipids is known to be the receptor in human intestine for cholera toxin?	
		a)	GM1	
		b)	GM3	
		c)	Globoside	
		d)	Cerebroside	
	Q.15		People with diabetes mellitus are prone to be develop cataract because their elevated blood glucose concentration	
		a)	Inhibit gluconeogenesis	
		b)	Increase glycosylate haemoglobin	
		c)	Increase glycogen synthesis within the lens	
		<b>d</b> )	Allow aldose reductase to reduce glucose to sorbitol	
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## F.Y. B.SC. (NURSING) (2007 COURSE): WINTER- 2018 SUBJECT: NUTRITION AND BIOCHEMISTRY

Day: Monday
Date: 08/10/2018

Time: 10.00 A.M. TO 01.00 P.M.

Max Marks. 60

## W-2018-4017

N.B. :	:						
	1)	All questions are <b>COMPULSORY</b> .					
	2)	·					
	3)	Answers to both the sections should be written in <b>SEPARATE</b> answer be					
		SECTION-II (NUTRITION)					
Q.1		Answer <b>ANY FIVE</b> of the following:	(15)				
	a)	Write a note on grilling as a cooking method?					
	b)	Classify nutrients with examples					
	c)	Classify minerals with examples					
	d)	Explain food pyramid with diagram					
	<b>e</b> )	Oral rehydration therapy					
	f)	Functions of carbohydrates					
	g)	Explain sources and deficiency diseases of iron					
Q.2		Answer ANY TWO of the following:					
<b>~</b>	a)	Protein					
		i) Classify protein under different aspects	(06)				
		ii) List down animal and plant sources of protein	(04)				
	b)	Vitamin C	` '				
	•	i) Functions	(03)				
		ii) Dietary sources	(04)				
		iii) Deficiency symptoms	(03)				
	c)	Food storage					
		i) Explain guidelines for food storage	(05)				
		ii) Describe recommended storage for various foods	(05)				
	d)	Therapeutic diet	(0.0)				
		i) Definition	(02)				
		ii) Objectives of therapeutic diet	(02)				
		iii) Explain any two therapeutic diet in detail	(06)				
		SECTION-III (BIOCHEMISTRY)					
Q.3		Answer ANY FIVE of the following:	(15)				
	a)	Fluid mosaic model	( )				
	b)	Factors affecting all enzyme activity					
	c)	Gluconeogenesis					
	d)	Lipoproteins					
	e)	Deamination					
	f)	Structure and function of tRNA					
	g)	Role of vitamin D in calcium metabolism					
Q.4		Answer <b>ANY ONE</b> of the following:	(10)				
~''	a)	What is $\beta$ – oxidation of fatty acids? Explain the $\beta$ – oxidation of palmitic	(+0)				
	,	acid with its energetic?					
	b)	i) Explain urea cycle	(05)				
		ii) Explain dehydration	(05)				
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