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a) Obesity



BRAINWARE UNIVERSITY

Term End Examination 2024-2025 Programme - DMLT-2021/DMLT-2022 Course Name - Clinical Biochemistry Course Code - DMLT404 (Semester IV)

Full Marks: 60 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

1.	Choose the correct alternative from the following	ng:	
(i)	Which of these is not a heart disease?		
	a) Hypertension c) Celiac disease	b) Angina pectoris d) Atherosclerosis	
(ii)	Control run should be arranged and done at the option.	e beginning of Select the correct	
	a) Each week	b) Each day	
	c) Each forthnight	d) Each month	
(iii)	Pancreatic digestive enzymes are not essential for Select the correct option.		
	a) D-xylose absorption	b) Pancreas activity	
	c) vitamin B12 absorption test	d) All of these	
(iv)	The condition of chronic inflammation of the t disease.	hyroid leads to which of the following	
	a) Thyroiditis	b) Goitre	
	c) Hypothyroidism	d) Hyperthyroidism	
(v)	In blood, T3 is bound to which molecules?		
	a) thyroxine binding globulin	b) thyronin binding pre albumin	
	c) hemoglobin	d) both 1 and 2	
(vi)	What is the Full form of HRPO?		
	a) horseradish peroxidase	b) horseredish peroxidase	
	c) horseredish peroxisome	d) none of these	
(vii)	Microwells are also known as Sele	ect the correct option.	
	a) micropipette plates	b) microtitre plates	
	c) both of these	d) none of these	
VIII)	Identify the condition, causes Hypothyroidism		

b) Diabetes

(ix)	 c) Cretinism d) Myxoedema (ix) In chronically deficient patients, this abnormality is directly related to the enlargement of the thyroid gland. Choose the condition from the following. 			
	a) Impaired conversion of T3 and T4	b) Reduced activity of thyroperoxidase	ontor	
	c) Elevated levels of TSH	 d) An antibody that binds to the TSH rec in the thyroid gland 	eptor	
(x)	Fatty acids released from adipose tissue are tran the correct statement.	sported by circulation Select		
(xi)	a) in relation to albumin c) as lecithin on the surface of HDL particles Select the best test that indicates the function o	 b) as chylomicron-transferred triacylglyc d) None of these mechanisms f the lower small intestine. 	erols	
(xii)	a) Vitamin B12 absorbance test c) Vitamin K Select which of the following is a common thyro	b) Vitamin E d) Vitamin D id disorder characterized by an	Brainware University Barasat Kokata - 700125	
	underactive thyroid gland?	EARLY SELECTION	Vare LiB7	
	a) Hyperthyroidism c) Thyroiditis	b) Hypothyroidism d) Goiter	Kata Kata	
(xiii)	Select the normal reference range for TSH levels		-70	
	a) 0.1 - 2.5 mIU/L	b) 2.5 - 5.0 mIU/L	25	
,	c) 0.5 - 5.0 mIU/L	4) 010 -10 1110, -	Ch	
(XIV)	Name the thyroid function test that assesses the proteins in the blood.			
	a) Total T4 test	b) Free T4 test		
(xv)	c) TSH test Identify the function of thyroglobulin in thyroid	d) Total T3 test		
(// //	a) Stimulates thyroid hormone production	b) Inhibits thyroid hormone production		
	c) Serves as a precursor for thyroid hormones	d) Regulates calcium levels		
	Grou			
	(Short Answer Ty	rpe Questions)	3 x 5=15	
2. Name some diagnosis methods for the detection of thyroid function.				
3. Write about 3 tests to detect joint disorders.			(3)	
 Apply your knowledge and justify the importance of RF test in joint disorder. Explain the clinical significance of Primary and Secondary Hypothyroidism. 			(3)	
6. II	lustrate the normal distribution curve for positive kewed curve.		(3)	
3	OF			
J	ustify the importance of analytical errors in qualit	ry control.	(3)	
	Grou	р-С		
	(Long Answer Ty	pe Questions)	5 x 6=30	
7	Define variables and classify different types of va	riables used in biostatistics.	(5)	
	Apply your knowledge and write how ECG and stress tolerance test can be useful in detection of cardiovascular disease.			
9.	Discuss about d-xylose test mentioning its proced	dure and interpretation.	(5)	
	Conclude the parameters- mean, median, and m		(5) (5)	
11. Given below is the distribution of weekly pocket money received by students of a class. Calculate the pocket money that is received by most of the students. Pocket Money 1-20				
12	21-40 41-60 61-80 81-100 101-120 121-140 No c		2 (5)	
12.	Calculate the Standard Deviation of the following 58, 57, 61, 59, 60, 61, 62, 67, 48, 54, 65, 63, 52.	g body weights in kg of to men. 55, 60, 6.	2, (3)	

Evaluate the Standard deviation of the following memory test scores of 20 high school students. 9, 10, 12, 15, 9, 11, 16, 10, 13, 9, 12, 10, 14, 13, 15, 16, 13, 10, 12, 14

(5)

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