61612

## Note the below:

- 1. All the questions are compulsory.
- 2. Draw neat & suitable diagrams wherever necessary.
- 3. Figures to the right indicate full marks.

Q.1.	Choose the correct option & rewrite the statements. (2 Marks each)							
1	. Fatty acid contains functional group.							
	a) Aldehyde b) Alcohol c) Carboxylic acid d) Ketone							
2.	A Valid 116.0-1 10 (0.00 15 10) 40 (4.00 4.00 15 10 10 10 10 10 10 10 10 10 10 10 10 10							
	a)Formation of protein b) Formation of carbohydrate c) Formation of lipid							
	d) Formation of glycogen							
3	. Lipolysis is							
	a) Breakdown of glucose b) Breakdown of protein c) Breakdown of lipid							
	d) Breakdown of lipoprotein							
4	. MUFA stands for							
	a) Mono unsaturated fatty acids b) Multi unsaturated fatty acids c) Both							
	d) None of the above							
5.	. PUFA Stands for							
	a)Phosphate unsaturated fatty acids b) Poly unsaturated fatty acids							
	c) Palm unsaturated fatty acids d)Palmitic unsaturated fatty acids							
6	5. The quantity of free fatty acid in Fat is called							
	a) Acid value b) Saponification c) Ozonolysis d) None of the above							
7	7. The hydrolysis of fats by alkali is called							
	a) Saponification b) Ozonolysis c) Acid value d) None of the above							
8	is a number of grams of iodine absorbed by 100 gm of fat.							
	a) Saponification b) Ozonolysis c) Acid value d) Iodine number							
9	are the building blocks of both DNA and RNA.							
	a) Nucleotides b) Nucleosides c) Nitrogen base d) Ribose sugar							
1	.0 takes place after transcription.							
	a) Digestion b) Accumulation c) Circulation d) Translation							
1	1. What does ATP stand for?							
	a) Adenine triphosphate b) Adenosine triphosphate c) Adeno triphosphate							
	d)Arginine triphosphate							
12	.2 is a pyrimidine nucleoside triphosphate, consisting of the organic base							
	uracil linked to the 1' carbon of the ribose sugar.							
	a) ATP b) GTP c) UTP d) TTP							
13	3 and deoxyribose are two types of pentose sugar that occur in nucleotides.							
	a) Fructose b) Ribose c) Glucose d) None of the above							
1	4. The DNA contains all of the nitrogenous bases except							
	a) Thymine b) Cytosine c) Adenine d) Uracil							
1	.5. The ribose differs from deoxyribose in having a -OH group instead of- H at position.							
	a) C-2 b) C-4 c) C-6 d) C-8							
1	.6. The gives the acid nature to the nucleotides and nucleic acids.							
	a) Lactic acid b) Sulphuric acid c) Phosphoric acid d) Malic acid							
1	.7. Anemia is defined as a lack of							
	a) Sodium b) Calcium c) Iron d) Protein							
1	.8. Saturated fats come from							
19	a) Plants b) Animals c) Processed foods d) Fungi							
	.9. All of the following are sources of calories except							
	a) Protein b) Fats c) Vitamins d) Carbohydrates							

20	O. Th	ne body's preferred	source of	fenergy	is		4		
	a)	Carbohydrates	b) Fats	c) \	/itamins	d) Pro	oteins		
2:	1. A	diet high in	has b	een linke	ed to high	blood pre	ssure.		
	a)	Iron	b) Prote	in c) S	odium	d) Ca	alcium		
22	2. Th	e most common fo	orm of fat	circulati	ng in the b	oody is		et ou souspile	
	a)	Saturated	b) Unsat	urated	c) Ch	olesterol	700 338	d) Triglyce	ride
23	3. W	hich one of the foll	lowing sta	tements	is correct	?			
	a)	Carbohydrates ar	e the boo	ly's majo	r energy r	eserve			
	b)	When there is no	further n	eed for a	amino acio	ds for grov	wth or re	pair, they ar	e broken
		down and used to	or energy						
	c)	The carbohydrates glucose, sucrose and fructose are non-glycaemic carbohydrates							
2.4	u) III addition to carbon, hydrogen and oxygen, all fats contain nitrogen								
24	. VV	nich one of the follo	owing star	tements	is correct	?			
		Vitamins are inorgeneed functioning							
	b)	Vitamins are requ	ired in gr	am amoi	unts each	day, wher	eas trace	e elements a	re required
		in miligram amou	unts						rerequired
	c)	Carbohydrates, fa	its and pro	oteins all	have stru	ctural role	es in the	body	
	d)	Excessive intake o	of one min	eral has	no effect	on the up	take of a	nother	
25.	-	allows us	s to deter	mine the	number	of calories	ner gra	m of food	
	a)	Calorimeter b) Co	olorimeter	c) Food	calorime	try d) Ho	oes appa	ratus	
Q.2)An	swe	r the following que	estions (A	nv 2)		Alter			
	a)	Explain the chemic	cal reaction	ons of Lir	pids- 1) Sa	nonification	on 2) lad	ination	(10 Marks)
	b)	Explain the chemic	cal reaction	ons of Lin	ids-1) 07	onalysis 2	1 100	ination.	
	c)	What is Rancidity?	Give its	ignificar	ice.	011017313 2	) Auto-0	xidation.	
	d)	Define the terms-	1) Acid nu	imber 2)	Saponific	ation num	nber 3) Id	odine numbe	er
Q.3)An	swe	the following que	estions (A	21					
		Explain the two ph			f DNA				(10 Marks)
	b)	Explain the role of	rRNA and	+RNA	II DNA.				
	c)	DNA gives a colore	d produc	t when r	nacted wit	-b DDA	216/t 9T/	1, 100 tel.0	
	d)	Write in brief abou	it followin	g terms:	1. Centra	l dogma 2	. Ribozy	plain why? mes	
Q.4)Ans	swer	the following que	stions (Ar	nv 2)					
		Give the nutritiona			roteins				(10 Marks)
	b)	Write a short on Ba	alance die	t.	otellis.				
		What is BOMB Cald			its working	g principle	ns		
	d)	Why are carbohydr	ates an ir	nportant	part of o	ur diet? Ex	xplain.		
Q.5) Ans	swei	the following que	stions (A	nv 4)	(i annel			(20	NA - 1 - V
		Write a short note			ds.			(20	Marks)
	b) :	State the functions	of Glycer	ophosph	olipids				
	c) '	With the help of str	ructures e	xplain p	vrimidines	and its to	nes		
	d) 1	Explain the types of	fall bonds	involve	d in forma	ition of n	icleic aci	d	
	e) I	Define the terms- 1	) Calorie	2) BMI 3	3) Biologic	al value	acicic aci	io ai simono	
1	F) \	Why is water an im	portant p	art of ou	r diet?	ar value.			