BIOLOGY NMDCAT EARLIER PREP PMC UNIT WISE TEST Unit-2

TOPI	CS:	
\checkmark	Biological molecules	
\checkmark	Enzymes	
Q.1	The most abundant organic compound	d to be found in any type of cell is:
	A. Carbohydrates	B. Proteins
	C. Lipids	D. Water
Q.2	•	l as reactant of photosynthesis.
~ ·-	A. Glycine	B. Ribose
	C. Glucose	D. Water
Q.3		eld polyhydroxy aldehyde or ketone subunits are:
Q.J	A. Lipids	B. Nucleic acids
	C. Proteins	
\mathbf{O} 4		D. Carbohydrates
Q.4		correctly justifies the synthesis of cellulose is:
	A. Hydrolysis	B. Condensation
0.5	C. Decarboxylation	D. Reduction
Q.5	Which of the following is not a macro	
	A. Nucleic acid	B. Glucose
	C. Polysaccharides	D. Proteins
Q.6	Most common ring structure formed l	
	A. 4 cornered	B. 5 cornered
	C. 6 cornered	D. 7 cornered
Q.7	Monosaccharides are major compone	nts of:
	A. DNA, ATP, ribulose bisphosphate an	d cysteine
	B. DNA, NADP, ATP and ribulose bispl	hosphate
	C. DNA, NAD and Insulin	
	D. DNA, RNA and myosin	
Q.8	The type of polysaccharides which	ch can be stored in plants and animals
	are and	, respectively.
	A. Starch, cellulose	B. Glycogen, cellulose
	C. Starch, glycogen	D. Glycogen, starch
Q.9		nt carbohydrate in nature.
V.)	A. Cellulose	B. Dextrins
	C. Chitin	D. Starch
Q.10		produced by the splitting of fructose 1,6-
Q.10	bisphosphate during glycolysis:	produced by the spitting of fractose 1,0-
	A. Glyceraldehyde	B. Ribose
Ο 11	C. Dihydroxyacetone	D. Xylulose
Q.11		hich has high molecular weight and sparingly
	soluble in water:	D 01' 1 '1
	A. Monosaccharides	B. Oligosaccharides
	C. Disaccharides	D. Polysaccharides
Q.12	1,4-glycosidic linkage is found in all of	
	A. Sucrose	B. Maltose
	C. Lactose	D. Amylose
Q.13	All of the following are common in all	amino acids except:
	A. Amino group	B. Carboxyl group
	C. Alpha carbon	D. R-group
Q.14	The number of amino acids that have	been found to occur in cells and tissues are:
	A. 170	B. 25
	C. 20	D. 45
Q.15	A protein molecule is related to all of	the following except:
Z.12	A. Homopolymer	B. Polypeptide
	C. Heteropolymer	D. Peptide bond formation
O 16	Which of the following holds the alpha	
۸۰۱۵		
	A. Hydrogen bond	B. R-group
O 15	C. Amino group	D. Disulphide bond
Q.17	The most abundant protein to be foun	
	A. Myoglobin	B. Hemoglobin
0.10	C. Collagen	D. Albumin
Q.18	Which of these is not significant to main	ntain quaternary structure of proteins?

	A. Pept	ide bonds		B. Hydrogei	n bonds	
	C. Ionic				obic interactions	
Q.19	In an insulin molecule, the polypeptide chains are held together by:					
	A. Pept	ide bond		B. Disulphio	le bridges	
	C. Hydi	rogen bone	d	D. Ionic inte	eraction	
$\mathbf{Q.20}$	_		_		and 990 amino acids, then h	ow
	-	vater mol	ecules were rel	leased during its synthe	esis?	
	A. 987			B. 988		
	C. 989			D. 990		
Q.21			a fibrous prot		eptide chains in the form of:	
	A. Clus			*	or curled up ball	
		uncoiled c			ands or fibrils	
Q.22			ng are include	ed in lipids except:		
	•	lglycerols		B. Terpenoi	ds	
0.22	_	ngolipids		D. Chitin		
Q.23				d by condensation react		
	•	acids and			ls and glucose	
0.24	•	acids and			ds and phosphates	
Q.24	•			contains double bond l		
		on and hy on and car		B. Carbon a		
0.25				D. Oxygen a		
Q.25	A. Glyc		les of tan in pi	ospholipid molecule is		
				B. Phosphat D. Nitrogen		
Q.26	C. Fatty		ng ontions ide	entify an example of ph		
Q.20		ntic acid	ing options, fac	B. Butyric a		
	C. Leci			D. Phosphat		
Q.27		is an exa	mple of:	B. Hiospiiat	idie deid	
~ /		lglycerol		B. Wax		
		pholipid		D. Terpenoi	ds	
Q.28		_	f adrenal corte	ex and gonads belong to		
	A. Terp			B. Diacygly		
	C. Glyc			D. Tyrosine		
Q.29	It is no	t a chemic	cal component			
Q.29	It is not A. Isopa		cal component		ls	
	A. Isopa C.Glyce	renoid erol		of lecithin molecule: B. Fatty acid D. Phosphat	ds e group and choline	
Q.29 Q.30	A. Isopa C.Glyce	renoid erol	cal component	of lecithin molecule: B. Fatty acid D. Phosphat		
	A. Isopa C.Glyce	renoid erol	tures of trigly	of lecithin molecule: B. Fatty acid D. Phosphat		
	A. Isopa C.Glyce	renoid erol	tures of trigly	of lecithin molecule: B. Fatty acid D. Phosphat cerides? Higher energy value	e group and choline	
	A. Isopa C.Glyce	renoid erol ere the fea	tures of trigly	of lecithin molecule: B. Fatty acid D. Phosphat	e group and choline Lower proportion	
	A. Isopa C.Glyce	renoid erol ere the fea	tures of trigly	of lecithin molecule: B. Fatty acid D. Phosphat cerides? Higher energy value	e group and choline Lower proportion of hydrogen than in	
	A. Isopa C.Glyce What a	renoid erol re the fea Polar	tures of trigly Less dense Than water	of lecithin molecule: B. Fatty acid D. Phosphat cerides? Higher energy value than carbohydrates	Lower proportion of hydrogen than in carbohydrates	
	A. Isop: C.Glyce What a	renoid erol re the fea Polar	tures of triglyout Less dense Than water	of lecithin molecule: B. Fatty acid D. Phosphat cerides? Higher energy value than carbohydrates	Lower proportion of hydrogen than in carbohydrates	
	A. Isop: C.Glyce What a A. B. C.	renoid erol ere the fea	tures of triglyout Less dense Than water	of lecithin molecule: B. Fatty acid D. Phosphat cerides? Higher energy value than carbohydrates	Lower proportion of hydrogen than in carbohydrates x	
Q.30	A. Isop: C.Glyco What a	renoid erol ere the fea	Less dense Than water	of lecithin molecule: B. Fatty acid D. Phosphat cerides? Higher energy value than carbohydrates * * * * * * * * * * * * *	Lower proportion of hydrogen than in carbohydrates x ✓	
	A. Isop: C.Glyco What a A. B. C. D. The con	renoid erol re the fea Polar	Less dense Than water	of lecithin molecule: B. Fatty acid D. Phosphat cerides? Higher energy value than carbohydrates x y sugar with a base result	Lower proportion of hydrogen than in carbohydrates x in a compound known as:	
Q.30	A. Isop: C.Glyce What a A. B. C. D. The con A. Nucl	renoid erol re the fea Polar	Less dense Than water	of lecithin molecule: B. Fatty acid D. Phosphat cerides? Higher energy value than carbohydrates x y sugar with a base result B. Nucleic A	Lower proportion of hydrogen than in carbohydrates x in a compound known as: Acid	
Q.30 Q.31	A. Isop: C.Glyco What a A. B. C. D. The cor A. Nucl C. Nucl	renoid erol ere the fea Polar w mbination leotide eoside	Less dense Than water	of lecithin molecule: B. Fatty acid D. Phosphat cerides? Higher energy value than carbohydrates x y sugar with a base result	Lower proportion of hydrogen than in carbohydrates x in a compound known as: Acid	
Q.30	A. Isop: C.Glyce What a A. B. C. D. The con A. Nucl C. Nucl Phosph	renoid erol re the fea Polar	Less dense Than water	of lecithin molecule: B. Fatty acid D. Phosphat cerides? Higher energy value than carbohydrates x y sugar with a base result B. Nucleic A D. Polynucle	Lower proportion of hydrogen than in carbohydrates x in a compound known as: Acid eotide	
Q.30 Q.31	A. Isop: C.Glyce What a A. B. C. D. The con A. Nucl C. Nucl Phosph	renoid erol ere the fea Polar V x mbination leotide eoside odiester leotide	Less dense Than water	of lecithin molecule: B. Fatty acid D. Phosphat cerides? Higher energy value than carbohydrates x y sugar with a base result B. Nucleic A	Lower proportion of hydrogen than in carbohydrates x in a compound known as: Acid eotide —O—C	
Q.30 Q.31 Q.32	A. Isop: C.Glyco What a A. B. C. D. The cor A. Nucl C. Nucl Phosph A. P—C. C. C—C.	renoid erol Polar Polar w mbination leotide leoside loodiester loog D—C—P-D—P	Less dense Than water	of lecithin molecule: B. Fatty acid D. Phosphat cerides? Higher energy value than carbohydrates x sugar with a base result B. Nucleic A D. Polynucle B. C—O—I D. C—N—C	Lower proportion of hydrogen than in carbohydrates x in a compound known as: Acid eotide —O—C	
Q.30 Q.31	A. Isop: C.Glyco What a A. B. C. D. The cor A. Nucl C. Nucl Phosph A. P—C. C. C—C.	renoid erol ere the fea Polar V x mbination leotide eoside odiester l O—C—P- O—P one is an	Less dense Than water	of lecithin molecule: B. Fatty acid D. Phosphat cerides? Higher energy value than carbohydrates ** Sugar with a base result B. Nucleic A D. Polynucle B. C—O—H	Lower proportion of hydrogen than in carbohydrates x in a compound known as: Acid eotide —O—C	
Q.30 Q.31 Q.32	A. Isop: C.Glyce What a A. B. C. D. The con A. Nucl C. Nucl Phosph A. P—C. C. C—Which	Polar Polar w mbination leotide leoside loodiester loo—C—P- one is an mosine	Less dense Than water	of lecithin molecule: B. Fatty acid D. Phosphat cerides? Higher energy value than carbohydrates * sugar with a base result B. Nucleic A D. Polynucle B. C—O—I D. C—N—Cono-nucleotide?	Lower proportion of hydrogen than in carbohydrates x in a compound known as: Acid eotide —O—C	
Q.30 Q.31 Q.32	A. Isop: C.Glyce What a A. B. C. D. The con A. Nucl C. Nucl Phosph A. P—C C. C—C Which A. Ader C. ATP	renoid erol ere the fea Polar V x mbination leotide eoside odiester leotide D—C—P- O—P one is an nosine	Less dense Than water	of lecithin molecule: B. Fatty acid D. Phosphat cerides? Higher energy value than carbohydrates * Sugar with a base result B. Nucleic A D. Polynucle B. C—O—I D. C—N—Cono-nucleotide? B. Guanine	Lower proportion of hydrogen than in carbohydrates x in a compound known as: Acid eotide	
Q.30 Q.31 Q.32 Q.33	A. Isop: C.Glyce What a A. B. C. D. The con A. Nucl C. Nucl Phosph A. P—C C. C—C Which A. Ader C. ATP	Polar Polar Polar w mbination leotide leoside leoside loodiester loo— Poone is an mosine he followi	Less dense Than water	of lecithin molecule: B. Fatty acid D. Phosphat cerides? Higher energy value than carbohydrates * sugar with a base result B. Nucleic A D. Polynucle B. C—O—I D. C—N—Cono-nucleotide? B. Guanine D. NAD+	Lower proportion of hydrogen than in carbohydrates x in a compound known as: Acid eotide	
Q.30 Q.31 Q.32 Q.33	A. Isopa C.Glyco What a A. B. C. D. The con A. Nucl C. Nucl Phosph A. P—C C. C—C Which A. Aden C. ATP All of the	Polar Polar Polar w mbination leotide leoside loodiester loo—C—P- O—P one is an mosine he followide	Less dense Than water	of lecithin molecule: B. Fatty acid D. Phosphat cerides? Higher energy value than carbohydrates * sugar with a base result B. Nucleic A D. Polynucle B. C—O—I D. C—N—C ono-nucleotide? B. Guanine D. NAD+ are directly synthesized	Lower proportion of hydrogen than in carbohydrates x in a compound known as: Acid eotide	
Q.30 Q.31 Q.32 Q.33	A. Isopa C.Glyco What a A. B. C. D. The con A. Nucl C. Nucl Phosph A. P—C C. C—C Which A. Aden C. ATP All of to A. DNA C. Prote	Polar Polar Polar w mbination leotide leoside loodiester loo—P one is an nosine he following A ein	Less dense Than water	of lecithin molecule: B. Fatty acid D. Phosphat cerides? Higher energy value than carbohydrates * sugar with a base result B. Nucleic AD. Polynucle D. Polynucle D. C—N—Cono-nucleotide? B. Guanine D. NAD+ are directly synthesized B. tRNA D. mRNA	Lower proportion of hydrogen than in carbohydrates x in a compound known as: Acid eotide ———————————————————————————————————	
Q.30 Q.31 Q.32 Q.33	A. Isopa C.Glyco What a A. B. C. D. The con A. Nucl C. Nucl Phosph A. P—C C. C—C Which A. Aden C. ATP All of the A. DNA C. Proto It is the	Polar Polar Polar w mbination leotide leoside leoside loome is an leosine he following a usual me	Less dense Than water	of lecithin molecule: B. Fatty acid D. Phosphat cerides? Higher energy value than carbohydrates * sugar with a base result B. Nucleic A D. Polynucle B. C—O—I D. C—N—C ono-nucleotide? B. Guanine D. NAD+ are directly synthesized B. tRNA D. mRNA genetic information with	Lower proportion of hydrogen than in carbohydrates x in a compound known as: Acid eotide ———————————————————————————————————	
Q.30 Q.31 Q.32 Q.33	A. Isopa C.Glyco What a A. B. C. D. The con A. Nucl C. Nucl Phosph A. P—C C. C—C Which A. Aden C. ATP All of the A. DNA C. Prote It is the A. DNA	Polar Polar Polar w mbination leotide leoside leoside loodiester leo—P O—P one is an nosine he followid a will be usual me A — Ribos	Less dense Than water	of lecithin molecule: B. Fatty acid D. Phosphat cerides? Higher energy value than carbohydrates * sugar with a base result B. Nucleic A D. Polynucle B. C—O—I D. C—N—C ono-nucleotide? B. Guanine D. NAD+ are directly synthesized B. tRNA D. mRNA genetic information with B. DNA →	Lower proportion of hydrogen than in carbohydrates x x in a compound known as: Acid eotide C—O—C C—O—P from DNA except: hin the cells: rRNA → Protein	
Q.30 Q.31 Q.32 Q.33 Q.34	A. Isopa C.Glyco What a A. B. C. D. The con A. Nucl C. Nucl Phosph A. P—C C. C—C Which A. Ader C. ATP All of to A. DNA C. Prote It is the A. DNA C. DNA	Polar Polar Polar w mbination leotide leoside leos	Less dense Than water Than wa	of lecithin molecule: B. Fatty acid D. Phosphat cerides? Higher energy value than carbohydrates * Sugar with a base result B. Nucleic A D. Polynucle B. C—O—I D. C—N—C Ono-nucleotide? B. Guanine D. NAD+ are directly synthesized B. tRNA D. mRNA Cenetic information with D. DNA — D. DNA — D. DNA —	Lower proportion of hydrogen than in carbohydrates x in a compound known as: Acid eotide C—O—C C—O—P from DNA except: hin the cells: rRNA → Protein mRNA → Protein	
Q.30 Q.31 Q.32 Q.33	A. Isopa C.Glyco What a A. B. C. D. The con A. Nucl C. Nucl Phosph A. P—C C. C—C Which A. Ader C. ATP All of the A. DNA C. Prote It is the A. DNA C. DNA Most of	Polar Polar Polar w mbination leotide leoside loodiester leo—C—P O—P one is an nosine he followin we usual me A → Ribos A → tRNA f the cellu	Less dense Than water	of lecithin molecule:	Lower proportion of hydrogen than in carbohydrates x √ x in a compound known as: Acid eotide C—O—C C—O—P from DNA except: hin the cells: rRNA → Protein mRNA → Protein ure.	
Q.30 Q.31 Q.32 Q.33 Q.34	A. Isopa C.Glyco What a A. B. C. D. The con A. Nucl C. Nucl Phosph A. P—C C. C—C Which A. Ader C. ATP All of the A. DNA C. Prote It is the A. DNA C. DNA Most of A. Glyco	Polar Polar Polar Polar w mbination leotide leoside loodiester leotide leoside loodiester leotide leoside loodiester leotide leoside loodiester leotide leoside leotide leoside leotide leotide leoside leotide l	Less dense Than water Than wa	of lecithin molecule: B. Fatty acid D. Phosphat cerides? Higher energy value than carbohydrates * sugar with a base result B. Nucleic A D. Polynucle B. C—O—I D. C—N—C ono-nucleotide? B. Guanine D. NAD+ are directly synthesized B. tRNA D. mRNA Cenetic information with D. DNA → arein nat B. Nucleoling	Lower proportion of hydrogen than in carbohydrates x x in a compound known as: Acid eotide C—O—C C—O—P from DNA except: hin the cells: rRNA → Protein mRNA → Protein ure. oid	
Q.30 Q.31 Q.32 Q.33 Q.34	A. Isopa C.Glyco What a A. B. C. D. The con A. Nucl C. Nucl Phosph A. P—C C. C—C Which A. Ader C. ATP All of the A. DNA C. Prote It is the A. DNA C. DNA Most of	Polar Polar Polar Polar Polar mbination leotide leoside l	Less dense Than water	of lecithin molecule:	Lower proportion of hydrogen than in carbohydrates x x in a compound known as: Acid eotide C—O—C C—O—P from DNA except: hin the cells: rRNA → Protein mRNA → Protein ure. oid stone	

A. Glycoprotein B. Nucleolipid C. Glycolipid D. Nucleohistone Q.38 Enzymes increase the rate of reaction by: A. Increasing temperature B. Decreasing activation energy D. Increasing product concentration C. Decreasing pH All of the following correctly describe the active site of an enzyme except: Q.39 A. It is small relative to the entire enzyme B. It is two dimensional in structure C. Specificity is defined by arrangement of certain amino acids D. It initially binds substrates by weak attractions The non-protein part of enzyme which is covalently and permanently bonded is Q.40 called: A. Prosthetic group B. Co-Enzyme D. Activator C. Co-Factor Q.41 It acts as precursor substance for coenzymes used by various enzymes during cellular metabolism: B. Carbohydrate A. Proteins D. Vitamins C. Nucleic acids model, the active site of enzyme is modified as the Q.42 According to substrate interacts with enzyme. A. Induced fit B. Emil Fischer C. Lock and key D. Fluid Mosaic Q.43 Ionization of active sites and substrates are affected by: A. Slight change in temperature B. Extreme change in temperature C. Slight change in pH D. Extreme change in pH If due to high temperature, globular structure of enzyme is destroyed, enzyme is Q.44 said to be: A. Activated B. Inactivated C. Denatured D. Catalyzed Q.45 The competitive inhibitors have structural similarity with: A. Active site B. Substrate C. Binding site D. Co-enzyme Q.46 In eukaryotes, enzymes are mostly: A. Present in extracellular fluid B. Attach to membrane system C. Suspended in cytoplasm D. Present in lumen of organs Q.47 Succinate dehydrogen ase converts succinate into: A. Malate B. Citrate C. Malonic acid D. Fumarate Q.48 Any agent which reduces or stops the rate of reaction of enzymes is termed as: A. Inhibitors B. Promoter C. Repressors D. Activator It is the common requirement of all enzymes working in living organisms: A. Acidic medium B. Basic medium D. Alkaline medium C. Aqueous medium If all the active sites are occupied, then rate of reaction would be: A. Minimum and constant B. Zero and constant C. Maximum and accelerating D. Constant and maximum Ribosomes exist as separate subunits that bind together during protein synthesis. Q.51What do these sub units consist of? B. mRNA and tRNA A. mRNA and protein C. rRNA and protein D. rRNA and tRNA Which type of reaction takes place when starch molecules are converted into Q.52reducing sugars? A. Condensation B. Polymerization

D. Synthesis

C. Hydrolysis

Q.53 The diagram shows part of a polymer.

Which molecule is used to break the bond indicated by the arrow?

A. Amino acid

B. Amylase

C. Peptide

D. Water

Q.54 The most abundant carbohydrate found in muscles and liver of animals is:

A. Cellulose

B. Polysaccharides

C. Starch

D. Glycogen

Q.55 Sucrose is non-reducing due to:

- A. 1, 4-Glycosidic bond between two glucose
- B. 1, 2-Glycosidic bond between glucose and fructose
- C. 1, 2-Glycosidic bond between two glucose
- D. 1, 4-Glycosidic bond between glucose and fructose

Q.56 How many haem groups are there in one molecule of human haemoglobin?

A. 1

3. 3

C. 2

). 4

Q.57 In aqueous medium, the most stable tertiary conformation is that in which:

- A. Hydrophobic amino acids are buried inside B. Hydrophilic amino acids are buried inside
- C. Hydrophobic amino acids are on the surface D. Only hydrophilic amino acids are present in it

Q.58 Which substance contains carbon, hydrogen, oxygen and nitrogen?

A. Collagen

B. Amylopectin

C. Glycogen

D. Triglyceride

Q.59 What will break an ionic bond between amino acids?

A. Condensation

B. Hydrolysis

C. Low temperature

D. pH change

Q.60 How many fatty acids residues are normally present in a phospholipid molecule?

A. 1

B. 2

C. 3

D. 4

Q.61 Which statement about triglycerides is correct?

- A. These are made up of three fatty acids combined with glycogen
- B. They are more saturated with hydrogen compared with phospholipids
- C. They form bilayer in the membranes of cells
- D. They have a lower ratio of oxygen to carbon compared with carbohydrates

Q.62 How many phosphodiester bonds are present in one molecule of ATP?

A. 0

B. 1

C = 2

D. 3

Q.63 An enzyme and substrate react through a specific site present in the enzyme known as:

A. Building site

B. Catalyst site

C. Active site

D. Allosteric site

Q.64 Which statement is true of all enzymes?

- A. They are denatured at temperature above 60°C
- B. They are inactivated at low pH values
- C. They catalyze the breakdown of large molecules into smaller ones
- D. They reduce the amount of energy required to start a reaction

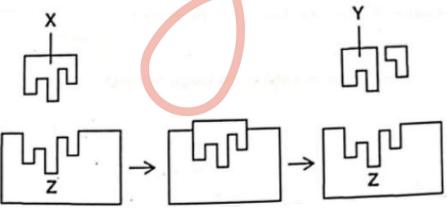
Q.65 What is the effect of an increasing substrate concentration on the degree of inhibition of an enzyme-controlled reaction?

inhibition of an enzyme-controlled reaction.			
	Competitive inhibition	Non-competitive inhibition	
A.	Decreased	Increased	
B.	Decreased	No change	
C.	Increased	Decreased	
D.	No change	Increased	

Q.66 Dipeptide means.

- A) two Similar amino acids attached by peptide bond
- B) two dissimilar amino acids attached by peptide
- C) two similar or dissimilar amino acids attached by peptide bond
- D) two Similar or dissimilar proteins attached by bond

Q.67	What is ribonucleoside.	
	A) ribose + nucleic acid	B) ribose + phosphate
	C) ribose + nitrogen base	D) ribose + adenine
Q.68	Which of the following are linked together to form prot	
	A) phosphate	C) nitrogen base
	B)sugar	D) amino acids
Q.69	In a typical nucleotide, phosphoric acid IS attached	,
Q. 03	number:	to pentose sugar at earson
	A) 1	B) 3
	C) 2	D) 5
Q.70	Which of the following nucleotide Is not found In DNA	
Q. 70	A) d-AMP	B) d-UMP
	C) d-GMP	D) d-CMP
Q.71	Link formed between nitrogenous base and pentose sug	·
Q. /1	A) C-C link	B) C-N link
	C) C.O link	D) C-O-P link
Q.72	X-ray diffraction analysis or DNA was first carried out	
Q.72	A) Fredrick Miescher	B) Rosalind Franklin
	C) Maurice Wilkins	D) James Watson
Q.73	It is the major proportion of RNA in the cell:	D) James Watson
Q. 73	A) mRNA	B) tRNA
	C) rRNA	D) rDNA
0.74	There are the most important group of protein which a	
Q.74		B) hormones
	A) Ribozymes C) anzymes	_//
O 75	C) enzymes A character that is applied to all as factors for anzymos	D) coenzymes
Q.75	A character that is applied to all co-factors for enzymes	
	A) Organic	B) protein
0.76	C) inorganic On hydrolysis nyslesside will not yield	D) non-protein
Q.76	On hydrolysis nucleoside will not yield	D) Dantaga gugan
	A) Pyrimidine's	B) Pentose sugar
0.77	C) Purines	D) Phosphoric acid
Q.77	According to the induce fit model substrate induces cha	_
	A) Enzyme function	B) enzyme structure
O 70	C) Enzyme activity	D) Enzyme composition
Q.78	Fats are solid due to presence of.	D) Classonals
	A) saturated fatty acids.	B) Glycerols
0.70	C) Unsaturated fatty acid	D) ester
Q.79	Phosphodiester. bond is present in.	D) - AMD
	A) ATP	B) cAMP
0.00	C) ADP	D) None
Q.80	Which of the following is not found in plant.	D) 1
	A) sucrose	B) lactose
0.01	C) glucose	D) fructose
Q.81	The diagram represents a model of enzyme action.	
	X	



Option	X	Υ	Z
A)	Enzyme	Product	Subtract
В)	Enzyme	Subtract	Product
C)	Subtract	Enzyme	Product
D)	Subtract	Product	Enzyme

Q.82 The number of carbon atoms in monosaccharide vary from.

A) 3 to 6

B) 3 to 7

C) 2 to 7

D) 3 to 5

	In a polysaccharide chain like glycogen the right en	id is canca readeing end since.
	A) -CHO group is engaged in glyosidic linkage	
	B)-CHO group is free	
	C)-CH ₃ group is engaged in glyosidic linkage	
	D)-CH ₃ group may free	
Q.84	Inhibitors have structural similarity with substrate	2.
	A) Irreversible	B) Competitive
	C) non-competitive	D) All of the above
Q.85	One which help enzyme and is an organic non prot	ein
	A) Activator	B) Co enzyme
	C) Cofactor	D) none of these
Q.86	Which of the following is a coenzyme?	,
	A) NAD	B) NADP
	C) FAD	D) All of above
Q.87	At a temperature below the freezing point of an en	,
_	A) Unaffected	B) Slightly in activated
	C) Inactivated	D) Killed
Q.88	The most important property of an enzyme is its	
•	A) Composition	B) Thermal denaturation
	C) Solubility	D) Specificity
Q.89	Enzyme inhibition caused by a substrate analog is	2) opening
Q. (0)	A) Competitive	B) In competitive
	C) Noncompetitive	D) Semi-competitive
Q.90	The smallest R group in any amino acid is:	B) semi competitive
4. 50	A) S	B) H
	C) NH ₂	D) CH ₃
Q.91	In the DNA molecule.	<i>D</i>) CH ₃
Q 131	A) The total amount of purine nucleotides and py	rimidine nucleotides is not always
	equal	minding independent in their driving of
	B) There are two strands which run parallel in the 5'-	— 3' direction
	C) The proportion of adenine in relation to thymine v	
		_
	1)) There are two strands which run antiparallel one 3	$^{\prime}$ — 3' direction and other in 3' — 5'
0.92	D) There are two strands which run antiparallel one 5 Which one of the following is correct sequence of a	
Q.92	Which one of the following is correct sequence of c	
Q.92	Which one of the following is correct sequence of of complexity of chemical structure.	
Q.92	Which one of the following is correct sequence of of complexity of chemical structure. A) oligosaccharides triose starch sucrose maltose	
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Q.92	Which one of the following is correct sequence of of complexity of chemical structure. A) oligosaccharides triose starch sucrose maltose B) sucrose starch oligosaccharides maltose trioses C) triose glucose maltose oligosaccharide starch	
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	Which one of the following is correct sequence of of complexity of chemical structure. A) oligosaccharides triose starch sucrose maltose B) sucrose starch oligosaccharides maltose trioses C) triose glucose maltose oligosaccharide starch D) triose glucose maltose oligosaccharide starch	carbohydrates in increasing order
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Q.93	Which one of the following is correct sequence of complexity of chemical structure. A) oligosaccharides triose starch sucrose maltose B) sucrose starch oligosaccharides maltose trioses C) triose glucose maltose oligosaccharide starch D) triose glucose maltose oligosaccharide starch Each beta chain of a hemoglobin molecule contains A) 21 amino acids C) 30 amino acids D	carbohydrates in increasing order s: (a) 141 amino acids (b) 146 amino acids
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Q.93	Which one of the following is correct sequence of complexity of chemical structure. A) oligosaccharides triose starch sucrose maltose B) sucrose starch oligosaccharides maltose trioses C) triose glucose maltose oligosaccharide starch D) triose glucose maltose oligosaccharide starch Each beta chain of a hemoglobin molecule contains A) 21 amino acids C) 30 amino acids Enzyme B requires Zna2+ in order to catalyze the zinc is best identified as a (n): A) Coenzyme B	carbohydrates in increasing order s: 1) 141 amino acids 2) 146 amino acids 3 conversion of substrate X. The 3 Substrate
Q.93 Q.94	Which one of the following is correct sequence of complexity of chemical structure. A) oligosaccharides triose starch sucrose maltose B) sucrose starch oligosaccharides maltose trioses C) triose glucose maltose oligosaccharide starch D) triose glucose maltose oligosaccharide starch Each beta chain of a hemoglobin molecule contains A) 21 amino acids C) 30 amino acids Enzyme B requires Zna2+ in order to catalyze the zinc is best identified as a (n): A) Coenzyme B) C) Cofactor	carbohydrates in increasing order 3: (a) 141 amino acids (b) 146 amino acids (c) conversion of substrate X. The
Q.93	Which one of the following is correct sequence of complexity of chemical structure. A) oligosaccharides triose starch sucrose maltose B) sucrose starch oligosaccharides maltose trioses C) triose glucose maltose oligosaccharide starch D) triose glucose maltose oligosaccharide starch Each beta chain of a hemoglobin molecule contains A) 21 amino acids C) 30 amino acids Enzyme B requires Zna2+ in order to catalyze the zinc is best identified as a (n): A) Coenzyme C) Cofactor What about enzymes is wrong?	carbohydrates in increasing order 3: (a) 141 amino acids (b) 146 amino acids (c) conversion of substrate X. The (d) Substrate (e) Product
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Q.93 Q.94 Q.95 Q.96	Which one of the following is correct sequence of complexity of chemical structure. A) oligosaccharides triose starch sucrose maltose B) sucrose starch oligosaccharides maltose trioses C) triose glucose maltose oligosaccharide starch D) triose glucose maltose oligosaccharide starch Each beta chain of a hemoglobin molecule contains A) 21 amino acids C) 30 amino acids Enzyme B requires Zna2+ in order to catalyze the zinc is best identified as a (n): A) Coenzyme C) Cofactor What about enzymes is wrong? A) Thermo labile C) Proteins in nature Which will cause the broken down of substrate? A) Enzyme substrate complex C) Enzymes+ substrate + water D) Enzyme + Optimum pH & Temperature The pair of nitrogen base in DNA is conjugated with A) disulphide bond B	carbohydrates in increasing order 3: (a) 141 amino acids (b) 146 amino acids (c) e conversion of substrate X. The (d) Substrate (e) Product (e) Catalysts (f) None of these (g) Enzyme + Optimum pH (h) (h) (h) (p) peptide bond
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Q.93 Q.94 Q.95 Q.96	Which one of the following is correct sequence of complexity of chemical structure. A) oligosaccharides triose starch sucrose maltose B) sucrose starch oligosaccharides maltose trioses C) triose glucose maltose oligosaccharide starch D) triose glucose maltose oligosaccharide starch C) triose glucose maltose oligosaccharide starch Each beta chain of a hemoglobin molecule contains A) 21 amino acids C) 30 amino acids Enzyme B requires Zna2+ in order to catalyze the zinc is best identified as a (n): A) Coenzyme C) Cofactor What about enzymes is wrong? A) Thermo labile C) Proteins in nature Which will cause the broken down of substrate? A) Enzyme substrate complex C) Enzymes+ substrate + water D) Enzyme + Optimum pH & Temperature The pair of nitrogen base in DNA is conjugated with A) disulphide bond C) hydrogen bond Which one of the following pairs is A) triose sugar — glyceraldehydes — aldo sugar	carbohydrates in increasing order 3: (a) 141 amino acids (b) 146 amino acids (c) e conversion of substrate X. The (d) Substrate (e) Product (e) Catalysts (f) None of these (g) Enzyme + Optimum pH (h) (h) (h) (p) peptide bond

Q.99	Which one of the following pairs is matched.	
	A) galactose - lactose	B) fructose - galactose
	C) fructose - glucose	D) ribose – Deoxyribose
O.100	The function or tRNA is:	•
	A) To carry genetic information's from DNA to	B) To synthesize protein
	C) Pick up amino acids and transfer them to	D) Constitute ribosomes
O 101	Glucose + Fructose → Sucrose H ₂ O	b) constitute mossomes
Q.101		D) Donaturation
	A) Hydrolysis C) Condensation	B) Denaturation D) Incomparation synthesis
0.103	C) Condensation	D) Incorporation synthesis
Q.102	Distance between twist of DNA molecule is:	D) 24 4 !!
	A) 31 A"	B) 34 A"
	C) 24 A"	D) 44 A"
Q.103	Extreme changes in pH cause denaturation of en	zyme by breaking:
	A) bond	B) ionic bond
	C) hydrogen	D) ester
O.104	Fatty acids are found in all of the following excep	
C	A) Acylglycerols	B) waxes
	C) phospholipids	D) terpenoids
O 105	Variability among different types of Acylglycero	•
Q.103	A) glycerol's	B) ketones
	,	
0.107	C) fatty acids	D) isoprenoid
Q.106	It is not a component of phosphatidic acid:	D) 1 1 1 1 11
	A) glycerol	B) phosphoric acid
	C) fatty acid	D) base
Q.107	A-helix amino acids in each turn of	the helix:
	A) 3.0	B) 3. 6
	C) 3.5	D) 3.8
Q.108	Silk is chemically:	
	A) Lipid	B) Protein
	C) wax	D) Carbohydrate
O.109	Pick the odd one	•
	A) Maltose	B) Cellulose
	C) Sucrose	D) Lactose
O 110	The RNA transporting-amino acid to the protein	,
Q.110	A) t-RNA	B) m-RNA
	C) r-RNA	D) any one of a.b,c
	C) I-RIVA	D) any one or a.o,e
0 111	Which the following pair regarding to higherical	importance of early shydretes is not
Q.111	Which the following pair regarding to biological	importance of carbonyurates is not
	correct match.	
	A) Cellulose — forms the plant cell wall	
	B) Glycogen—reserve food in animals	
	C) Ribose sugar — structural components of ATP	
	D) Galactose — the most widely used in respiration	1
Q.112	Find out the miss matched pairs.	
	A) Protein — important compounds of nucleus	
	B) Nucleic acid — major components Of chromoso	omes
	C) Amino acid — an amphoteric Compound	
	D) Enzymes — colloidal catalysts	
0.113	Two amino acids are attached due to:	
Q.IIC	A) Disulphide bonds	B) Hydrogen bond
	C) Glycosidic bond	D) Peptide bond
0 114	Phosphoric acid has the ability to develop	with OH group Of pentose sugar
4.11 4	<u> </u>	_
	A) Hydrogen bond	B) Covalent bond
041-	C) Ester linkage	D) None of these
Q.115	NAD is an important:	D) ~
	A) Enzyme	B) Coenzyme
	C) Hormone	D) Vitamin
Q.116	An amino acid has a minimum of carbo	
	A) 1 & 2	B) 2 & 2
	C) 2 & 1	D) 1 & 1A

A) 120 C) 240 C) 18 The bond formed between glucose and fructose to from sucrose is A) 1, 4 Glycosidic bond C) 1, 6 Glycosidic bond C) 1, 6 Glycosidic bond D) 1, 3 Glycosidic bond C) 1, 6 Glycosidic bond D) 1, 3 Glycosidic bond C) 1, 6 Glycosidic bond D) 1, 3 Glycosidic bond C) 1, 6 Glycosidic bond D) 1, 3 Glycosidic bond D) 1, 3 Glycosidic bond C) 1, 6 Glycosidic bond B) 1, 6 Glycosidic bond D) 1, 2 Glycosidic bond C) 1, 6 Glycosidic bond B) 1, 6 Glycosidic bond C) 1, 6 Glycosidic bond B) 1, 6 Glycosidic bond C) 1, 6 Glycosidic bond D) 1, 2 Glycosidic bond C) 2 Glycosidic bond D) 1, 2 Glycosidic bond C) 1, 2 Glycosidic bond D) 1, 2 Glycosidic bonds D) 1	Q.117	Segment of DNA has 120 adenine and 120 cytosine nucleotides present in the segment is	bases. The total number of
Q.118 The bond formed between glucose and fructose to from sucrose is A) 1, 4 Glycosidic bond D) 1, 3 Glycosidic bond D) Calling 0s D) 1, 4 and 1, 6 D) 1, 2 and 1-4 D) 1, 4 and 1, 6 D) 1, 2 and 1-4 D) Glycerol D) Lipids store more energy then proteins D) Road on the following is an example of phospholipids A) Its polar nature D) React with substrate C) Is non protein D) React with substrate D) React with substrate D) Sucrose glucose fructose D) Mallose, lactose, fructose D) Mallose, lactose, fructose D) GaP D) GaP Q.127 The following molecule represents a Simplest sugar A) Fructose C) Ager D) GaP Q.127 The distinctive characteristic and functional groups of fats is A) Ketone A) Scolums alts of figher fatty acids B) Mixture of sodium and potassium salts of higher fatty acids D) Ester D) Glycerides of fatty acids D) Dister D) Buffer protein D) Plospholipids D) Plospholipids D) Peptide bonds D) Peptide bonds D) Peptide bonds D) Peptide bonds D) Peptide bond		,	, , , , , , , , , , , , , , , , , , ,
A) 1, 4 Glycosidic bond C) 1, 6 Glycosidic bond C) 1, 5 HisoQa C) C, ClyTroO, C) In glycogen, which kind or linkage is found between adjacent glucose molecules? A) 1, 4 C) 1, 4 and 1, 6 C) 1, 4 and 1, 6 C) 1, 2 and 1-4 C) 1, 4 and 1, 6 C) 1, 4 and 1, 6 C) Lecithin A) Palmitic acid C) Lecithin C) Glycerol C) Elecithin C) Glycerol C) Elecithin C) D, CyPhospholipids are never form part of cell membrane D) Lipids store more "energy then proteins C) The spholipidity are never form part of cell membrane D) Lipids store more "energy then proteins C) Its ionic nature C) Its ionic nature C) Its ionic nature A) Serve as bridge C) Is non protein D) React with substrate C) Sucross glucose, fructose D) Mallose, lactose, fructose C) Sucross, glucose, fructose D) Mallose, lactose, fructose C) Ager C) Ager C) Ager C) Ager C) The following molecule represents a Simplest sugar A) Fructose C) Ager C) Ager C) Peptide D) Gara A) Fructose C) Ager D) Gara A) Fructose C) Ager C) Peptide D) Ester A) Sodium salts of higher fatty acids B) Mixture of sodium and potassium salts of higher fatty acids C) Potassium salts of higher fatty acids D) Glyceroles of fatty acids C) Potassium salts of higher fatty acid molecule C) One glycerol molecule and one fatty acid molecule C) One glycerol molecule and one fatty acid molecule C) One glycerol molecule and one fatty acid molecule C) One glycerol molecule and one fatty acid molecule C) Differential Fruction D) Buffer protein C) Basic Protein C) Basic Protein D) Buffer protein C) Basic Protein C) Basic Protein D) Proteide bonds D) Peptide bonds D) Peptide bon	0.440	· · · · · · · · · · · · · · · · · · ·	,
C) 1, 6 Gilycosidic bond Q.119 The sugar Component of DNA molecule has an empirical formula: A) Cstl ₁₀ Os C) Cstl ₁₀ Os D) Cstl ₁₀ Os Q.120 In glycogen, which kind or linkage is found between adjacent glucose molecules? A) 1, 4 C) 1, 4 and 1, 6 D) 1, 2 and 1-4 Q.121 Which of following is an example of phospholipid? A) Palmitic acid C) Lecithin Q.122 Which of the following is incurrect about lipids? A) On basis of single and double bonds they are divided into fats and oils B) Neural tissues are made dp of neutral fats only C) Phospholipids are never form part of cell membrane D) Lipids store more *energy then proteins Q.123 Solubility, high heat of vaporization and high heat capacity of water in due to? A) Its polar nature C) Is sonic nature Q.124 Not true for co-factor of enzyme A) Serve as bridge B) Provide source of chemical energy C) Is non protein Q.125 In which of the following groups, all are polysaccharides? A) Gilycogen, sucrose, malfose C) Sucrose, glucose, fructose D) Malfose, lactose, fructose Q.126 The following molecule represents a Simplest sugar A) Fructose C) Ager Q.127 The distinctive characteristic and functional groups of fats is A) Ketone C) Peptide Q.128 Vegetable oils are A) Sodium salts of higher fatty acids B) Mixture of sodium and potassium salts of higher fatty acids C) Potassium salts of higher fatty acids D) Glycerides of fatty acids B) Mixture of sodium and potassium salts of higher fatty acid molecule C) One glycerol molecule and three fatty acid molecule D) Three glycerol molecules and one fatty acid molecule D) Three glycerol molecules and one fatty acid molecule D) Three glycerol molecules and one fatty acid molecule D) Three glycerol molecules and one fatty acid molecule D) Three glycerol molecules and one fatty acid molecule D) Three glycerol molecules and one fatty acid molecule D) Three glycerol molecules and three fatty acid molecule D) Three glycerol molecules and three fatty acid molecule D) Buffer protein C) Bail P	Q.118	_	
Q.119 The sugar Component of DNA molecule has an empirical formula: A) CsH1nOs C) CsH1nOs D) CsH1r2Os D) CsH1r2Os D) CsH1r2Os D) CsH1r2Os D) CsH1r2Os D) CsH1r2Os D) L4 D) L4 C) L4 and L6 D) L, 4 D) L, 2 and L4 Q.121 Which of following is an example of phospholipid? A) Palmitic acid C) Lecithin D) Glycerol Q.122 Which of the following is incurrect about lipids? A) On basis of single and double bonds they are divided into fats and oils B) Neural tissues are made up of neutral fats only. C) Phospholipids are never form part of cell membrane D) Lipids store more *corety then proteins D) Lipids store more *corety then proteins Q.123 Solubility, high heat of vaporization and high heat capacity of water in due to? A) Its polar nature C) Its ionic nature D) Polar and ionic nature Q.124 Not true for co-factor of enzyme A) Serve as bridge C) Is non protein Q.125 In which of the following groups, all are polysaccharides? A) Glycogen, sucrose, naltose C) Sucrose, glucose, fructose D) Maltose, lactose, fructose Q.126 The following molecule represents a Simplest sugar A) Fructose C) Ager Q.127 The distinctive characteristic and functional groups of fats is A) Ketone C) Peptide Q.128 Vegetable oils are A) Sodium salts of higher fatty acids B) Mixture of sodium and potassium salts of higher fatty acids D) Glycerides of act and molecule D) Three glycerol molecule and three fatty acid molecule C) One glycerol molecule and three fatty acid molecule D) Three glycerol molecule and one fatty acid molecule D) Harts synthesize proteins from A) Sugars B) Neutral protein C) Basic Protein C) Basic Protein C) Basic Protein C) Basic Protein C) A protein rich in lysine and arginine behave as A) Acidic protein C) Basic Protein C) A protein rich in lysine and arginine behave as A) Acidic protein C) Basic Protein C) A Glycosdic bonds C) S-S li		, · · · · · · · · · · · · · · · · · · ·	•
A) C3 H1nO3 C) C SH1nO3 D) CaH1nO3 D) L, 2 and L-4 B) L, 4 B) L, 6 C) L, 4 and L, 6 D) L, 2 and L-4 B) L, 2 and L-4 B) L, 3 and L-4 B) L, 4 B) L, 5 D) L, 2 and L-4 B) L, 4 B) L, 5 D) L, 2 and L-4 B) L, 5 B) Arachidonic acid C) Leeithin D) Givecrol D) Lipids store more concept then protein glucose molecules? A) On basis of single and double bonds they are divided into fats and oils B) Neural tissues are made up of neutral fats only C) Phospholipids are never form part of cell membrane D) Lipids store more concept then proteins B) Neural tissues are made up of neutral fats only C) Phospholipids are never form part of cell membrane D) Lipids store more concept then proteins B) Ris covalent bonds C) Its ionic nature B) B its covalent bonds C) Its ionic nature B) Provide source of chemical energy C) Its ionic nature B) Provide source of chemical energy C) Is non protein D) React with substrate C) Sucrose, glucose, fructose D) Maltose, lactose, fructose C) Sucrose, glucose, fructose D) Maltose, lactose, fructose C) Ager A) Fructose C) Ager C) Ager C) Peptide C) Peptide C) Peptide C) Peptide C) Peptide C) Peptide C) Potassium salts of higher fatty acids B) Mixture of sodium and potassium salts of higher fatty acids C) Potassium salts of higher fatty acids B) Mixture of sodium and potassium salts of higher fatty acids C) Diverrides of fatty acids D) Cilycerides of fatty acids D) Cilycerides of fatty acids D) Givecrolomolecules and three fatty acid molecule D) Three glycerol molecules and one fatty acid molecule D) Three protein molecules and one fatty acid molecule D) Three protein molecules and one fatty acid molecule D) Three protein molecules and one fatty acid molecule D) Three protein molecules and one fatty acid molecule D) Three protein molecules and one fatty acid molecule C) A cilycerides of the fatty acids D) Phospholipids C) A mino acids D) Phospholipids D) Peptide bonds C) S-S linkage D) Poptide bonds D) Pepti	O 119	, , , , , , , , , , , , , , , , , , ,	, · · · · · · · · · · · · · · · · · · ·
C) C3H ₁₀ O ₂ Q.120 In glycogen, which kind or linkage is found between adjacent glucose molecules? A) 1, 4 B) 1, 6 C) 1, 4 and 1, 6 C) 1, 4 and 1, 6 D) 1, 2 and 1-4 Q.121 Which of following is an example of phospholipid? A) Palmitic acid C) Lecithin Q.122 Which of the following is incorrect about lipids? A) On basis of single and double bonds they are divided into fats and oils B) Neural tissues are made up of neutral fats only C) Phospholipids are never form part of cell membrane D) Lipids store more energy then proteins Q.123 Solubility, high heat of vaporization and high heat capacity of water in due to? A) Its polar nature C) Its ionic nature Q.124 Not true for co-factor of enzyme A) Serve as bridge C) Is non protein D) React with substrate Q.125 In which of the following groups, all are polysaccharides? A) Glycogen, sucrose, maltose C) Sucrose, glucose, fructose D) Maltose, lactose, fructose Q.126 The following molecule represents a Simplest sugar A) Fructose C) Ager Q.127 The distinctive characteristic and functional groups of fats is A) Ketone C) Peptide Q.128 Vegetable oils are A) Sodium salts of higher fatty acids B) Mixture of sodium and potassium salts of higher fatty acids C) Potassium salts of higher fatty acids D) Glycorides of fatty acids B) Mixture of sodium and potassium salts of higher fatty acids C) Potassium salts of higher fatty acids D) Glycorides of fatty acids	Q.11 ,	ĕ .	
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C) Amino acids Q.132 The primary structure of a protein is maintained due to A) Glycosidic bonds C) S-S linkage D) Phospholipids B) Hydrogen bonds D) Peptide bonds C) Peptide bonds C) Peptide bonds C) S-S linkage D) Peptide bonds D) Peptide	Q.131	<u>-</u>	
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Q.133 The number of different amino acids discovered yet A) 26 B) 20		, ·	, ,
	Q.133	,	, 1
C(170)		,	/
	0.104	C) 170	D) 270
Q.134 Which Of the following is a type of dinucleotide?	Q.134	which Of the following is a type of dinucleotide?	
C) ADP DNA D) NAD		A) DNA	B) RNA

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Q.135	Which of the following sequence is correct on	the basis of increasing molecular
	weight?	D) AMD ADD NADD DNA
	A) DNA, ATP, NADP, AMP	B) AMP, ADP, NADP, DNA
O 126	C) ATP, AMP, DNA, NADP These are polyhydroxy aldehydes or ketones:	D) ATP, ADP, NADP, DNA
Q.130	A) Carbohydrates	B) Lipids
	C) Proteins	D) Nucleic acids
0.137	These are the primary products of photosynthesis	
Q.10 /	A) Carbohydrates	B) Lipids
	C) Proteins	D) Nucleic acids
Q.138	Cotton is pure form of:	,
	A) Starch	B) Cellulose
	C) Fibrous protein	D) Silk fiber
Q.139	Fatty acids found in acylglycerols in animals are	commonly:
	A) Straight chains	B) Branched chains
	C) Ringed	D) All A, B, C
Q.140	Classification of amino acids into different group	
	A) Amino group	B) Carboxyl group
0 141	C) Alpha carbon Scale model of DNA was built by	D) Alkyl group
Q.141	Scale model of DNA was built by:	D) Fryin Chargaff
	A) Frederick Miescher C) James D. Watson	B) Erwin Chargaff D) Maurice Wilkins
O 142	Genetic message for the formation of a particula	
Q.142	A) mRNA	B) tRNA
	C) rRNA	D) All A, B, C
Q.143	A statement that is not true for enzymes:	
	A) Increase rate of reaction	B) Affect nature of end products
	C) Required in small amounts	D) Sehsitive to environment
Q.144	At unlimited substrate concentration, rate of rea	
	A) Substrate	B) Enzyme
0 145	C) Product	D) Intermediate
Q.145	Slight change in optimum pH can affect enzyme A) Destruction of globular structure	
	C) Effect on ionic state of active site	B) Denaturation of enzyme structure D) Breakdown of hydrogen bonds
0.146	An enzyme that works in liver at very high pH:	b) Breakdown of nydrogen bonds
Q.11. 0	A) Pepsin	B) Chymotrypsin
	C) Lipase	D) Arginase
Q.147	An enzyme inhibitor is a chemical substance that	t:
	A) Attaches substrate with enzyme	B) Transforms substrate into product
	C) Blocks active site of enzyme	D) Activates catalytic site of enzyme
Q.148	Which one will be at tertiary structural level?	D) E.1 .
	A) Haemoglobin C) Mysglobin	B) Fibrin
O 149	C) Myoglobin General formula for monosaccharides can best be	D) Keratin
Q.14)	A) C _x (H2O) _y	B) C _n (H ₂ O) _n
	C) (CH ₂ O) _n	
Q.150		IJ) C(□2(J)n-1
•		D) $C(H_2O)_{n-1}$
	Number of ester bonds in a trinucleotide: A) 1	B) 2
	Number of ester bonds in a trinucleotide:	
Q.151	Number of ester bonds in a trinucleotide: A) 1 C) 3 Presence of which type of bond shows more com	B) 2 D) 5 plexity among carbohydrates?
Q.151	Number of ester bonds in a trinucleotide: A) 1 C) 3 Presence of which type of bond shows more com A) 1-2 glycosidic linkage	B) 2 D) 5 plexity among carbohydrates? B) 1-6 glycosidic linkage
	Number of ester bonds in a trinucleotide: A) 1 C) 3 Presence of which type of bond shows more com A) 1-2 glycosidic linkage C) 1-4 glycosidic linkage	B) 2 D) 5 plexity among carbohydrates? B) 1-6 glycosidic linkage D) 1-3 glycosidic linkage
	Number of ester bonds in a trinucleotide: A) 1 C) 3 Presence of which type of bond shows more com A) 1-2 glycosidic linkage C) 1-4 glycosidic linkage Which of the following does not contain carbohy	B) 2 D) 5 plexity among carbohydrates? B) 1-6 glycosidic linkage D) 1-3 glycosidic linkage
	Number of ester bonds in a trinucleotide: A) 1 C) 3 Presence of which type of bond shows more com A) 1-2 glycosidic linkage C) 1-4 glycosidic linkage Which of the following does not contain carbohy A) Pectin	B) 2 D) 5 plexity among carbohydrates? B) 1-6 glycosidic linkage D) 1-3 glycosidic linkage drates? B) Dextrin
Q.152	Number of ester bonds in a trinucleotide: A) 1 C) 3 Presence of which type of bond shows more com A) 1-2 glycosidic linkage C) 1-4 glycosidic linkage Which of the following does not contain carbohy A) Pectin C) Cutin	B) 2 D) 5 plexity among carbohydrates? B) 1-6 glycosidic linkage D) 1-3 glycosidic linkage
Q.152	Number of ester bonds in a trinucleotide: A) 1 C) 3 Presence of which type of bond shows more com A) 1-2 glycosidic linkage C) 1-4 glycosidic linkage Which of the following does not contain carbohy A) Pectin C) Cutin Which one is not a nitrogenous busc?	B) 2 D) 5 plexity among carbohydrates? B) 1-6 glycosidic linkage D) 1-3 glycosidic linkage drates? B) Dextrin D) Chitin
Q.152	Number of ester bonds in a trinucleotide: A) 1 C) 3 Presence of which type of bond shows more com A) 1-2 glycosidic linkage C) 1-4 glycosidic linkage Which of the following does not contain carbohy A) Pectin C) Cutin Which one is not a nitrogenous busc? A) Adenine	B) 2 D) 5 plexity among carbohydrates? B) 1-6 glycosidic linkage D) 1-3 glycosidic linkage drates? B) Dextrin D) Chitin B) Lecithin
Q.152 Q.153	Number of ester bonds in a trinucleotide: A) 1 C) 3 Presence of which type of bond shows more com A) 1-2 glycosidic linkage C) 1-4 glycosidic linkage Which of the following does not contain carbohy A) Pectin C) Cutin Which one is not a nitrogenous busc? A) Adenine C) Ethanolamine	B) 2 D) 5 plexity among carbohydrates? B) 1-6 glycosidic linkage D) 1-3 glycosidic linkage drates? B) Dextrin D) Chitin B) Lecithin D) Choline
Q.152 Q.153	Number of ester bonds in a trinucleotide: A) 1 C) 3 Presence of which type of bond shows more com A) 1-2 glycosidic linkage C) 1-4 glycosidic linkage Which of the following does not contain carbohy A) Pectin C) Cutin Which one is not a nitrogenous busc? A) Adenine	B) 2 D) 5 plexity among carbohydrates? B) 1-6 glycosidic linkage D) 1-3 glycosidic linkage drates? B) Dextrin D) Chitin B) Lecithin D) Choline

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Q.155 What is the effect of an increasing substrate concentration on the degree of inhibition of an enzyme-controlled reaction?

	Competitive inhibition	Non-competitive inhibition
A.	Decreased	Increased
B.	Decreased	No change
C.	Increased	Decreased
D.	No change	Increased

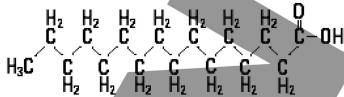
Q.156 Formation of trisaccharide involves release of wa	ter molecules
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A) 2

B) 3 D) 4

C) 1

Q.157 Given below is the formula of:



A) Palmitic acid

C) Acetic acid

B) Oleic acid

D) Butyric acid

Q.158 A triglyceride molecule has:

- A) Three fatty acids with two glycerol mplecules
- B) Three fatty acids with one glycerol molecule
- C) Two fatty acids with two glycerol molecules
- D) One fatty acid with one glycerol molecule

Q.159 Starch is:

A) Monomer & micromolecule

B) Monomer & macromolecule

C) Pdlymer & micromolecule

- D) Polymer & macromolecule
- Q.160 Chemical reaction which correctly justifies the synthesis of cellulose is:
 - A) Hydrolysis

B) Decarboxylation

C) Condensation

- D) Reduction
- Q.161 Types of amino acids that are used to form most of the proteins:
 - A) 18

B) 20

C) 21

- D) 25
- Q.162 When an assembly of more than one globular polypeptides occurs then it is known structure of protein.
 - A) Secondary

B) Primary

C) Tertiary

D) Quaternary

- Q.163 Cuticle is an example of:
 - A) Acylglycerols

B) Phospholipids

C) waxes

- D) Terpenoids
- Q.164 In a molecule of DNA, nucleotide of thymine pairs with:
 - A) Datp C) dUTP

- B) dAMP D) dGTP
- Q.165 How many nitrogen atoms are present in adenine?
 - A) 3

B) 4

C) 5

- D) 6
- Q.166 The catalytic activity of an enzyme is restricted to a small portion of the structure known as:
 - A) Active site

B) Allosteric site

C) Binding site

- D) Substrate site
- Q.167 Most abundant organic compound in a bacterial cell is:
 - A) water C) Protein

- B) RNA D) Lipid
- 0.168 Water acts as temperature stabilizer in organism' due to its very high: A) Heat of vaporization
 - B) Ionic properties

C) Heat capacity

- D) Solubility
- Q.169 Hydrolysis of which of the following will give two glucose molecules?
 - A) Sucrose

B) Maltose

C) Lactose

- D) Mannose
- Q.170 Which of the following is a non-reducing carbohydrate?
 - A) Maltose

B) Glucose

C) Cellulose

- D) Lactose
- Q.171 Most common stored fats in our body belong to which group of lipids?

	A) Steroids	B) Phospholipids
	C) Glycolipids	D) Acylglycerols
Q.172	Which one is used in formation of lecithin?	
	A) Serine	B) Ethanolamine
O 172	C) Choline Which grown of amino acid is involved in format	D) Adenine
Q.173	Which group of amino acid is involved in format amino acid?	ion of peptide inhage with other
	A) CH ₃	B) Alpha - Carbon
	C) Amino group	D) R-group
0.174	Which type of bond cannot be found in tertiary s	, C 1
(12.1	A) Peptide bond	B) Ionic bond
	C) H-bond	D) Ester bond
Q.175	Which amino acid is involved in formation of dis	,
	A) Serine	B) Cysteine
	C) Arginine	D) Methionine
Q.176	Most abundant type of RNA in cytoplasm is:	D) (D) (
	A) rRNA	B) tRNA
O 177	C) mRNA	D) rDNA
Q.177	Which is mainly responsible for the movement of cell division?	or chromosomes during anaphase of
	A) RNA	B) Lipids
	C) Proteins	D) DNA
Q.178	What is the Common character in fructose and d	
	A) Aldehyde group	B) Ketonic group
	C) Number of carbons	D) Number of OH groups
Q.179	Active site of enzyme is made up of:	
	A) Few amino acids	B) Co-factors
0.400	C) Bulk of amino acids	D) Bulk of amino acids and co-factor
Q.180	What is objection on lock and key model of enzy	
	A) Active site has different charges C) Active site shape is flexible	B) Active site shape is rigid D) Binding site is not a separate site
O 181	C) Active site shape is flexible Salivary amylase can digest starch optimally at:	D) Binding site is not a separate site
Q.101	A) Slightly acidic pH	B) Highly basic pH
	C) Highly acidic pH	D) Slightly basic pH
Q.182	Which one of the following are found rarely in na	, , ,
	A) Hexoses	B) Pentoses
	C) Trioses	D) Tetroses
Q.183	The main source of carbohydrates for animals is:	
	A) Starch	B) Chitin
O 104	C) Glycogen	D) Cellulose
Q.104	How many carbon atoms contribute to form a py A) 7	B) 6
	C) 5	D) 4
O.185	Lipids store high amount of energy because of high	,
	A) C - H bond	B) C -C bond
	C) C-N bond	D) C-O bond
Q.186	Phospholipids are derivatives of phosphatidic aci	id. Phosphatidic acid contains all of
	the following except:	
	A) Glycerol	B) Phosphoric acid
0.105	C) Fatty acid	D) Nitrogenous base
Q.187	Lipids are usually non-polymers. The only polym	
	A) AcylglycerolsC) Waxes	B) Phospholipids D) Terranoids
O 188	Keratin is a protein of:	D) Terpenoids
A.100	A) Muscles	B) Spindles
	C) Hairs	D) Blood
Q.189	The compound formed by combination of a base	,
_	A) Ester	B) Nucleotide
	C) Nucleoside	D) Phospholipid

Q.190 All of the following are true for both DNA and RNA except:

	A) Contain pentose sugar, nitrogenous base and ph	-
	B) Are nucleic acids and formed by condensation of	
	C) Each containing four different types of nitrogen	
O 101	D) Both are double stranded molecules of nucleic a	acias
Q.191	Point out the odd pair: A) Protein, peptide bond	B) Fats, ester bond
	C) Polysaccharide, glyosidic bond	D) ATP, hydrogen bond
O 192	%age of ribosomal RNA out of all RNAs is:	D) ATT, flydrogen bond
Q.172	A) 3-4%	B) 50%
	C) 10-20%	D) 80%
0.193	The biologically active proteins are known as:	2) 00/0
Q.L.	A) Glycoproteins	B) Activators
	C) Enzymes	D) Inhibitors
Q.194	In a eukaryotic cell, most of the enzymes are:	
	A) Dissolved in cytoplasm	B) Attached to membrane system
	C) Float in cytoplasm	D) None of these
Q.195	They check the reaction rate by occupying	the active sites. or destroying the
	globular structure:	
	A) Irreversible inhibitors	B) Competitive inhibitors
	C) Reversible inhibitors	D) Non-competitive inhibitors
Q.196	Number of peptide bonds in insulin:	
	A) 51	B) 49
0.40=	C) 50	D) 48
Q.197	Insulin is a protein consisting of two polype	petide chains of amino acids held
	together by:	D) Ctidi-1
	A) Peptide bonds	B) Gtycosidic bonds
O 100	C) Covalent Which are of the following regults in	D) Disulphide
Q.190	Which one of the following reactions results in proteins	if the conversion of amino acids to
	A) Condensation	B) Deamination
	C) Phosphorylation	D) Transamination
Q.199	All of the following are keto sugars except	D) Transammation
Q.177	A) Ribulose	B) Glucose
	C) Dihydroxyacetone	D) Fructose
Q.200	The chief form of carbohydrate stored in anima	,
	A) Glucose	B) cellulose
	C) Starch	D) Myoglobin
Q.201	The main source of carbohydrates for animals is	S
	A) Starch	B) Chitin
	C) Glycogen	D) Cellulose
Q.202	Number of peptide bonds in a molecule of hemog	
	A) 574	B) 572
0.000	C) 573	D) 570
Q.203	How many carbon atoms contribute to form a py	
	A) 7	B) 6
0.204	C) 5 On hydrolysis triglyspride yields	D) 4
Q.204	On hydrolysis triglyceride yields: A) A glycerol and three fatty acids	D) A fatty acid and three always
	C) A glucose and three fatty acids	B) A fatty acid and three glycerol D) A maltose and two fatty acids
O 205	Both DNA & RNA	b) A manose and two fatty acids
Q.203	A) Are single standard molecules	
	B) Contain the same four nucleotide bases	
	C) Have the same five-carbon sugar	
	D) Contain phosphate group	
O.206	Which of the following characteristics does not	apply to a structural protein such a
C	silk?	representation of the second o
	A) Peptide bond	B) Specific secondary structure
	C) Active site	•
	D) Hydrogen bonds between separate polypeptide	chains
Q.207	Which of the following is not a function of polys	
	A) Storage of heredity material	B) Energy storage
	C) Formation of cell walls	D) Structural support

Q.208	When a peptide is formed, which statement is cor	rect?
	A) One amino Eid loses a hydroxyl group from its a	mine group
	B) One amino acid loses a hydroxyl group from its	
	C) Both amino acid lose a hydrogen atom from their	• •
0.00	D) Both amino acid lose a hydrogen atom from their	• 1
Q.209	When hydrolysed, which molecule have products	containing a carboxyl group?
	1. phospholipids	
	2. polysaccharides	
	3. Proteins	D) 1 and 2
	A) 1 and 2 C) 2 and3	B) 1 and 3 D) 3 only
O 210	Which term most nearly means substrate?	D) 5 only
Q.210	A) Reactant	B) Enzymes lower
	C) Activation energy	D) Active site
0.211	Enzymes lower the of the react	
C	A) pH	B) Temperature
	C) Activation energy	D) speed
Q.212	The type of inhibition in which inhibitor has no	/ 1
	with enzyme at other than the active site is called.	
	A) Irreversible inhibition	B) Competitive inhibition
	(C) Non-competitive and reversible inhibition	D) Reversible inhibition
Q.213	Which answer choice matches the functions listed	to the correct RNA types?
	I. Interprets a codon as an amino acid	
	II. Binds to a gene transcript	
	Ill. Contains information for assembling a protein	1
	A) 1. mRNA: II. rRNA; III tRNA	
	B) l. mRNA: II. tRNA; Ill, rRNA C) l. tRNA: II. mRNA; Ill. rRNA	
	D) 1. tRNA: II. rRNA; Ill. mRNA	
O 214	J. D. Watson and F.H. Crick utilized X-ray diffra	ction data nurnosed by:
Q.21 1	A) Rosalind Wilkins and Maurice Franklin	tetion data purposed by.
	B) Sutton and Boveri	
	C) Maurice Wilkins and Rosalind Franklin	
	D) None of these	
Q.215	The optimum pH for sucrase is:	
	A) 680	B) 4.50
4	(C) 5.50	D) 7.60
Q.216	Such cofactor that make the weak linkage with th	
		C) Activator
0.01=		D) Activator and Co Enzyme?
Q.21 7	It increases the Vibration of atoms violent Which	
		B) Inhibitors D) Heat
O 218	C) Substrate cone Active site by virtue of its flexibility becomes com	D) Heat
Q.216		B) Emil Fischer's proposal
		D) Statement is wrong
0.219	It has optimum pH of 9.0	b) Statement is wrong
V.2 13		B) Chymotrypsin
	,	D) Catalase
Q.220	Enzymes increase the rate of reaction by.	,
		C) Decreasing Activation Energy
		D) Increasing-Activation Energy
Q.221	Which of the following combination of pair is abs	ent in DNA?
	,	B) C-G
	,	D) T-A
Q.222	The inhibitors that bind tightly and to enzymes a	nd destroy their globular Structure
	and catalytic activity are:	D) I
		B) Irreversible inhibitors D) Non-competitive inhibitors
0 222	,	D) Non-competitive inhibitors
Q.223	Enzyme succinate dehydrogenase converts succin	B) Malonic acid
	,	D) Fumarate
		1 / 1 umanate

Q.224	If the detachable cofactor is an inorganic ion the	n it is designated as:
	A) Coenzyme	B) Prosthetic group
	C) Holoenzyme	D) Activator
Q.225	The cornbination of a pentose sugar with a base	result in a compound is known as:
	A) Nucleotide	B) Nucleoside
	C) Nucleic Acid	D) Polynucleotide
Q.226	Number of base pairs in one turn of DNA is:	•
	A) 10	B) 2
	C) 34	D) 54
Q.227	Which one of the following is an example of com	,
	A) Glucose	B) Fumarate
	C) Succinic Acid	D) Melonic acid
Q.228	Which sugar is not present in plants	<i>'</i>
	A) Sucrose	B) Lactose
	C) Glucose	D) Fructose
Q.229	All Coenzymes are derived from	
	A) Proteins	B) Nucleic acids
	C) Carbohydrates	D) Vitamins
Q.230	Bond b/w phosphate and sugar in anucleotide is	
	A) H -bond	B) Phosphodiester bond
	C) Covalent bond	D) Sulphide bond
Q.231		d tRNA interact to translate the
	information into from genes intro a specific prot	
	A) rRNA	B) Chrornosome
	C) Ribosorne	D) Nuclesome
Q.232	Antiparallel strands of DNA molecules means	
	A) One strand tums anti-clock wise	
	B) The phosphate group of two DNA strands. at the	eir ends share the same position
	C) The phosphate group at the strands of DNA are	in position (Poles)
	D) One strand turns clock-wise	
Q.233	The enzymes important in photosynthesis are for	und in:
	A) Mitochondria	B) Chloroplast
	C) Ribosomes	D) apparatus
Q.234	By increasing the enzyme molecules an increase	in the number of takes place:
	A) Substrate molecules	B) Product molecules
	C) Active sites	D) Inhibitor molecules
Q.235	Following are the properties of enzyme EXCEPT	
	A) Enzymes are globular proteins	B) Not used up in chemical reactions
	C) Have no effect on the nature of end	D) the activation energy of reactants
Q.236	A detachable organic co-factor is called:	
	A) Prosthetic group	B) Activator
0.00=	C) Co-enzyme	D) Apenzyme
Q.237	Both of them can used again and again:	D) F 0 C
	A) Hormones & Antibodies	B) Enzymes & Co-enzymes
0.220	C) Enzymes & substrates	D) Substrates & Products
Q.238	All three types of are synthesized fro	
	A) RNA DNA Nucleus	B) RNA Nucleus. DNA
O 220	C) DNA RNA Nucleus This type of DNA consists of a single strong of type	D) Nucleus. RNA DNA
Q.239	This type of RNA consists of a single strand of va	
	A) Messenger RNA	C) Transfer RNA
0.240	B) Ribosomal RNA	D) snRNA
Q.24 0	Small amount of an enzyme can accelerate che in their action:	mical reactions means enzymes are
		D) Non anaifia
	A) Specific C) Efficient	B) Non-specific
O 241	In a feedback mechanism, the final product	D) Accurate the enzyme of first step:
V.241	A) inhibits	B) Stimulates
	C) Activates	D) Regulates
O 242	,	, 0
Q.242	If the enzyme concentration is and amount is reached when a further increase in the substitute.	strate does not increase the rate of
	reaction, any more-	strate does not increase the rate of
	A) Increased, Increased	B) Increased. Decreased
	C) Decreased, Increased	D) Keep constant.
	C) Decreased, increased	D) Keep constant.

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	All enzymes can work at their maximum rate a	_
	A) Suitable temperature	B) Minimum temperature
	C) Optimum temperature	D) Maximum temperature
Q.244	An enzyme with its co-enzyme or prosthetic gre	_
	A) Apoenzyme	B) Co-enzyme
	C) Holoenzyme	D) Co-factor
Q.245	Who proposed lock and key model to visualize	
	A) Koshland	B) Emil Fischer
	C) Edward Bucher	D) J. B Sumner
Q.246	Is a chemical substance which can react in pl	ace of substrate, with enzyme, but is
	not transformed into	D) I 1 '1 '
	A) Cyanide	B) Inhibitor
0.247	C) Antibodies	D) Antimetabolites
Q.247	The role of enzyme controlled reaction may inc	
	A) up to a certain limit	C) up to minimum level
O 249	B) up to maximum level	D) up to infinite level
Q.246	At high substrate level, further increase in reaction rate because:	the substrate does not increase the
	A) There is no enzyme	
	B) All the active sites of the enzyme are	
	C) There is no active site	
	D) All the active Sites of the enzyme are free	
0.249	Maximum amount of DNA occurs inside the	nucleus, however a small amount of
Q.2 I	DNA is always located outside the nucleus in:	nucleus, nowever a sman amount of
	A) Mitochondria	B) Chloroplast
	C) Plasmids	D) Mitochondria and Chloroplast
O.250	The factor that affect the rate of enzyme catal	
C	of enzyme:	
	A) Chemistry, Shape	B) PH and Temperature
	C) Ionization and temerature	D) energy and Temperature
	C) formzation and territariate	D) energy and remperature
Q.251	In nucleic acids adenine can make a base pair	, ,
Q.251		, ,
Q.251	In nucleic acids adenine can make a base pair	with:
	In nucleic acids adenine can make a base pair A) Guanine	with: B) Thymine D) Thymine or Uracil
	In nucleic acids adenine can make a base pair A) Guanine C) Uracil A DNA sample having 34% Will have what per A) 16%	with: B) Thymine D) Thymine or Uracil reentage of cytosine: B) 32%
Q.252	In nucleic acids adenine can make a base pair A) Guanine C) Uracil A DNA sample having 34% Will have what per A) 16% C) 34%	with: B) Thymine D) Thymine or Uracil reentage of cytosine: B) 32% D) 68%
Q.252	In nucleic acids adenine can make a base pair A) Guanine C) Uracil A DNA sample having 34% Will have what per A) 16% C) 34% Pepsin is a powerful digestive enzym	with: B) Thymine D) Thymine or Uracil reentage of cytosine: B) 32% D) 68%
Q.252	In nucleic acids adenine can make a base pair A) Guanine C) Uracil A DNA sample having 34% Will have what per A) 16% C) 34% Pepsin is a powerful digestive enzym A) Carbohydrates	with: B) Thymine D) Thymine or Uracil reentage of cytosine: B) 32% D) 68% Be B) Proteins
Q.252 Q.253	In nucleic acids adenine can make a base pair A) Guanine C) Uracil A DNA sample having 34% Will have what per A) 16% C) 34% Pepsin is a powerful digestive enzym A) Carbohydrates C) Lipids	with: B) Thymine D) Thymine or Uracil reentage of cytosine: B) 32% D) 68% B) Proteins D) Nucleic acid
Q.252 Q.253	In nucleic acids adenine can make a base pair A) Guanine C) Uracil A DNA sample having 34% Will have what per A) 16% C) 34% Pepsin is a powerful digestive enzym A) Carbohydrates C) Lipids Because of the structural similarity with the structu	with: B) Thymine D) Thymine or Uracil recentage of cytosine: B) 32% D) 68% B) Proteins D) Nucleic acid he substrate they may be selected
Q.252 Q.253	In nucleic acids adenine can make a base pair A) Guanine C) Uracil A DNA sample having 34% Will have what per A) 16% C) 34% Pepsin is a powerful digestive enzym A) Carbohydrates C) Lipids Because of the structural similarity with temporarily by the binding sites, but are not altered.	with: B) Thymine D) Thymine or Uracil reentage of cytosine: B) 32% D) 68% B) Proteins D) Nucleic acid he substrate they may be selected ole to activate me catalytic sites:
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Q.252 Q.253 Q.254	In nucleic acids adenine can make a base pair A) Guanine C) Uracil A DNA sample having 34% Will have what per A) 16% C) 34% Pepsin is a powerful digestive enzym A) Carbohydrates C) Lipids Because of the structural similarity with temporarily by the binding sites, but are not ale A) Irreversible it inhibitors C) Competitive inhibitors	with: B) Thymine D) Thymine or Uracil reentage of cytosine: B) 32% D) 68% B) Proteins D) Nucleic acid he substrate they may be selected le to activate me catalytic sites: B) Reversible inhibitors D) Non-Competitive inhibitors
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Q.252 Q.253 Q.254 Q.255	In nucleic acids adenine can make a base pair A) Guanine C) Uracil A DNA sample having 34% Will have what per A) 16% C) 34% Pepsin is a powerful digestive enzym A) Carbohydrates C) Lipids Because of the structural similarity with temporarily by the binding sites, but are not alt A) Irreversible it inhibitors C) Competitive inhibitors C) Competitive inhibitors The structure of the glucose and galactose are season as a subject of the glucose and ga	with: B) Thymine D) Thymine or Uracil reentage of cytosine: B) 32% D) 68% B) Proteins D) Nucleic acid he substrate they may be selected le to activate me catalytic sites: B) Reversible inhibitors D) Non-Competitive inhibitors same except with regards to B) 3rd Carbon D) 4th Carbon
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Q.252 Q.253 Q.254 Q.255	In nucleic acids adenine can make a base pair A) Guanine C) Uracil A DNA sample having 34% Will have what per A) 16% C) 34% Pepsin is a powerful digestive enzym A) Carbohydrates C) Lipids Because of the structural similarity with temporarily by the binding sites, but are not at A) Irreversible it inhibitors C) Competitive inhibitors The structure of the glucose and galactose are s A) 1st Carbon C) 2nd Carbon Enzyme are different from inorganic catalyst A) Not being used up in reactions C) Having high diffusion rate Glycerol is the back bone molecule for A) Waxes	with: B) Thymine D) Thymine or Uracil reentage of cytosine: B) 32% D) 68% B) Proteins D) Nucleic acid he substrate they may be selected ole to activate me catalytic sites: B) Reversible inhibitors D) Non-Competitive inhibitors same except with regards to B) 3rd Carbon D) 4th Carbon B) Being proteinases in nature D) Working at high temperature B) Triglycerides
Q.252 Q.253 Q.254 Q.255 Q.256 Q.257	In nucleic acids adenine can make a base pair A) Guanine C) Uracil A DNA sample having 34% Will have what per A) 16% C) 34% Pepsin is a powerful digestive enzym A) Carbohydrates C) Lipids Because of the structural similarity with temporarily by the binding sites, but are not at A) Irreversible it inhibitors C) Competitive inhibitors The structure of the glucose and galactose are sea. A) 1st Carbon C) 2nd Carbon Enzyme are different from inorganic catalyst A) Not being used up in reactions C) Having high diffusion rate Glycerol is the back bone molecule for A) Waxes C) Phospholipid	B) Thymine D) Thymine or Uracil reentage of cytosine: B) 32% D) 68% B) Proteins D) Nucleic acid he substrate they may be selected ole to activate me catalytic sites: B) Reversible inhibitors D) Non-Competitive inhibitors Same except with regards to B) 3rd Carbon D) 4th Carbon B) Being proteinases in nature D) Working at high temperature
Q.252 Q.253 Q.254 Q.255 Q.256 Q.257	In nucleic acids adenine can make a base pair A) Guanine C) Uracil A DNA sample having 34% Will have what per A) 16% C) 34% Pepsin is a powerful digestive enzym A) Carbohydrates C) Lipids Because of the structural similarity with temporarily by the binding sites, but are not alt A) Irreversible it inhibitors C) Competitive inhibitors C) Competitive inhibitors The structure of the glucose and galactose are seady as a late of the structure of the glucose and galactose are seady as a late of the structure of the glucose and galactose are seady as a late of the structure of the glucose and galactose are seady as a late of the structure of the glucose and galactose are seady as a late of the structure of the glucose and galactose are seady as a late of the structure of the glucose and galactose are seady as a late of the structure of the glucose and galactose are seady as a late of the structure of the glucose and galactose are seady as a late of the structure of the glucose and galactose are seady as a late of the structure of the glucose and galactose are seady as a late of the structure of the glucose and galactose are seady as a late of the structure of the glucose and galactose are seady as a late of the structure of the glucose and galactose are seady as a late of the structure of the glucose and galactose are seady as a late of the structure of the st	with: B) Thymine D) Thymine or Uracil recentage of cytosine: B) 32% D) 68% B) Proteins D) Nucleic acid he substrate they may be selected le to activate me catalytic sites: B) Reversible inhibitors D) Non-Competitive inhibitors same except with regards to B) 3rd Carbon D) 4th Carbon B) Being proteinases in nature D) Working at high temperature B) Triglycerides D) All of these
Q.252 Q.253 Q.254 Q.255 Q.256 Q.257	In nucleic acids adenine can make a base pair A) Guanine C) Uracil A DNA sample having 34% Will have what per A) 16% C) 34% Pepsin is a powerful digestive enzym A) Carbohydrates C) Lipids Because of the structural similarity with temporarily by the binding sites, but are not alt A) Irreversible it inhibitors C) Competitive inhibitors The structure of the glucose and galactose are set. A) 1st Carbon C) 2nd Carbon Enzyme are different from inorganic catalyst A) Not being used up in reactions C) Having high diffusion rate Glycerol is the back bone molecule for A) Waxes C) Phospholipid A fatty acid is saturated if it A) All internal carbon atoms in fatty acid chain of	with: B) Thymine D) Thymine or Uracil recentage of cytosine: B) 32% D) 68% B) Proteins D) Nucleic acid he substrate they may be selected le to activate me catalytic sites: B) Reversible inhibitors D) Non-Competitive inhibitors same except with regards to B) 3rd Carbon D) 4th Carbon B) Being proteinases in nature D) Working at high temperature B) Triglycerides D) All of these
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Q.252 Q.253 Q.254 Q.255 Q.256 Q.257	In nucleic acids adenine can make a base pair A) Guanine C) Uracil A DNA sample having 34% Will have what per A) 16% C) 34% Pepsin is a powerful digestive enzym A) Carbohydrates C) Lipids Because of the structural similarity with temporarily by the binding sites, but are not alt A) Irreversible it inhibitors C) Competitive inhibitors The structure of the glucose and galactose are set. A) 1st Carbon C) 2nd Carbon Enzyme are different from inorganic catalyst A) Not being used up in reactions C) Having high diffusion rate Glycerol is the back bone molecule for A) Waxes C) Phospholipid A fatty acid is saturated if it A) All internal carbon atoms in fatty acid chain of	with: B) Thymine D) Thymine or Uracil recentage of cytosine: B) 32% D) 68% B) Proteins D) Nucleic acid he substrate they may be selected le to activate me catalytic sites: B) Reversible inhibitors D) Non-Competitive inhibitors same except with regards to B) 3rd Carbon D) 4th Carbon B) Being proteinases in nature D) Working at high temperature B) Triglycerides D) All of these
Q.252 Q.253 Q.254 Q.255 Q.256 Q.257 Q.258	In nucleic acids adenine can make a base pair A) Guanine C) Uracil A DNA sample having 34% Will have what per A) 16% C) 34% Pepsin is a powerful digestive enzym A) Carbohydrates C) Lipids Because of the structural similarity with temporarily by the binding sites, but are not at A) Irreversible it inhibitors C) Competitive inhibitors C) Competitive inhibitors The structure of the glucose and galactose are seady as a list Carbon C) 2nd Carbon Enzyme are different from inorganic catalyst A) Not being used up in reactions C) Having high diffusion rate Glycerol is the back bone molecule for A) Waxes C) Phospholipid A fatty acid is saturated if it A) All internal carbon atoms in fatty acid chain of B) Contains Single bond between carbon C) Contain double bond between carbon	with: B) Thymine D) Thymine or Uracil recentage of cytosine: B) 32% D) 68% Be B) Proteins D) Nucleic acid he substrate they may be selected le to activate me catalytic sites: B) Reversible inhibitors D) Non-Competitive inhibitors same except with regards to B) 3rd Carbon D) 4th Carbon B) Being proteinases in nature D) Working at high temperature B) Triglycerides D) All of these contain at least two hydrogen
Q.252 Q.253 Q.254 Q.255 Q.256 Q.257 Q.258	In nucleic acids adenine can make a base pair A) Guanine C) Uracil A DNA sample having 34% Will have what per A) 16% C) 34% Pepsin is a powerful digestive enzym A) Carbohydrates C) Lipids Because of the structural similarity with temporarily by the binding sites, but are not at A) Irreversible it inhibitors C) Competitive inhibitors C) Competitive inhibitors The structure of the glucose and galactose are s A) 1st Carbon C) 2nd Carbon Enzyme are different from inorganic catalyst A) Not being used up in reactions C) Having high diffusion rate Glycerol is the back bone molecule for A) Waxes C) Phospholipid A fatty acid is saturated if it A) All internal carbon atoms in fatty acid chain of B) Contains Single bond between carbon C) Contain double bond between carbon D) A and B	with: B) Thymine D) Thymine or Uracil recentage of cytosine: B) 32% D) 68% Be B) Proteins D) Nucleic acid he substrate they may be selected le to activate me catalytic sites: B) Reversible inhibitors D) Non-Competitive inhibitors same except with regards to B) 3rd Carbon D) 4th Carbon B) Being proteinases in nature D) Working at high temperature B) Triglycerides D) All of these contain at least two hydrogen

Q.260	Phospholipids are derivatives of Phosphatidic a	cid. Phospholipids acid contains all
	of following except	
	A) glycerol	B) phosphoric Eid
	C) fatty acid	D) Nitrogenous base
Q.261	This amino acid is called	
	CH ₃	
	H ₂ N——CH——COOH	
	_	D. 41 .
	A) Leucine	B) Alanine
0.262	C) Glycine Each of the 20 naturally according agains acids h	D) Arginine
Q.202	Each of the 20 naturally occurring amino acids h	
	A) NH ₂ group C) — COOH group	B) R Group D) — OH group
0 263	Which class of molecule is the major component	, ,
Q.2 03	A) Phospholipid	C) cellulose
	B) wax	D) Triglyceride
O.264	The two pyrimidine bases most commonly found	
	A) Uracil and thymine	B) Cytosine and thymine
	C) Cytosine and uracil	D) Cytosine and Guanine
Q.265	Deoxyribonucleic acid, adenosine triphosphate a	nd ribonucleic acid do not contain:
	A) Bases	B) pentose
	C) nucleotides	D) Peptides
Q.266	What is the advantage of DNA having wo compl	ementary strands?
	A) Pairing can occur between chromatids	
	B) Transcription and replication can occur simult	aneously
	C) Semi — conservative replication is possible	
0 267	D) Diploid cells can inherit DNA from both paren	
Q.207	Which of the following statements about str molecule is	ands of a newly replicated DNA
	A) Both strands are made up of newly assembled in	nucleatides
	B) One strand is new and the other is part of the or	
	C) Both strands contain some nucleotides from the	
	D) The sugar — phosphate chains are and new bas	=
Q.268	Which statement describe base in nucleic acids?	
	A) Adenine cannot pair with either uracil or	
1	B) Guanine is paired adenine	
	C) Hydrogen bonding can only occur between py	rimidine bases
	D) Purine bases can only pair, with pyrimdine	
Q.269	What is the function of the enzyme DNA polyme	
	A) To build a strand of DNA using DNA as a ten-	•
	B) To build a strand of DNA using a polypeptide a	•
	C) To build a strand of mRNA using DNA as a term	•
O 270	D) To build a polypeptide using mRNA as a temp.	iate
Q.270	Glyosidic seen in Lactose A) Alpha 1-4 linkage	B) Alpha 1-6 linkage
	C) Beta 1-4 linkage	D) Alpha 1-2 linkage
0.271	What is the effect of the enzyme DNA ligase?	D) I iipiia 1 2 iiimage
Q /1	(B) DNA replication	(D) DNA transcription occurs
Q.272	Which of the following statement about the stru	` '
_	A) one complete turn requires 3.4 10 nm and 10 b	
	B) The backbones of each strand run in opposite d	lirections relative to each other
	C) Each pair of nucleotides is held together by three	ee hydrogen bonds
	(D) The width of the molecule is a constant 2 nm	
Q.273	An mRNA is 336 nucleotides long, including the	
	The number of amino acids in the protein trans	
	A) 10	B) 111
0 274	C) 112 Phosphodiester band is formed between	D) 330
Q. 2/4	Phosphodiester bond is formed between A) Two Phosphate Group	
	, <u>1</u> 1	
	B) One Phosphale W. I wo Hydroxyl Group	
	B) One Phosphate & Two Hydroxyl Group C) Two Phosphate & one Hydroxyl Group	

Q.275	Proteins consist of definable sequences of amino	acids arranged in a certain definite
	order. This was suggested for the first tinw by	
	A) PA Levene	B) F. Miescher
	C) F. Sanger	D vernnon ingram
Q.276	The Inhibition caused by the competitive Inhibit	or can be overcome by:
	A) Increasing temperature of reaction	
	B) Decreasing temperature of reaction	
	C) Increasing concentration of substrate	
	D) Decreasing concentration of substrate	
Q.2 77	Large RNA molecule displays more conform	ational changes than DNA double
	helices because	
	A) Presence of triplex region	
	B) Occurrence of single stranded regions	
	C) Presence of unusual modified bases	
O 279	D) Presence of ribose Sugars Piels up pyrimiding from following	•
Q.278	Pick up pyrimidine from following.	P) Cytoging
	A) Adenine C) Guanine	B) Cytocine D) All are pyrimidine
O 270	Which of following is Incorrect absent Monosaco	D) All are pyrimidine
Q.219	A) C-5	B) C-9
	C) C-6	D) All are correct
O 280	What kind of glycosidic linkage is found In sucre	
Q.200	A) 1, 6	B) 1, 4
	C) 2, 6	D) 1, 4 D) 1, 2
0.281	Which one of the following molecules has the lov	
Q.2 01	A) Sucrose	B) Lactose
	C) Glucose	D) Cellulose
0.282	Which of the following has the greatest number	
•	A) Glucose	B) DNA
	C) Amylose	D) Vitamin A
Q.283	The amount of DNA in picogram in kindly cells	,
	A) 2.3	B) 2.4
	C) 3.3	D) 1.3
Q.284	Choline contains how many carbon and nitroger	,
	A) 4-1	B) 3-1
	C) 5-1	D) 4-2
Q.285	A peptide chain attains secondary structures thr	ough the formation of
	A) Ionic bonds	B) Hydrogen bonds
	C) Di-sulfide bond	D) Peptide bond
Q.286	Amylopectin is soluble in	
	A) Hot water	B) Cold water
0.205	C) Soluble in both	D) Cold & Hot water
Q.287	Human cell amount of thymine 29% what would	
	A) 30 C) 20	B) 29 D) 23
O 288	Pick up Globular protein which is defensive for	, , , , , , , , , , , , , , , , , , ,
Q.2 00	A) Enzymes	B) Hormones
	C) Antibodies	D) All of these
Q.289		D) I'm of these
Q.2 07	A) Palmitic acid	B) Oleic acid
	C) Acetic Acid	D) Butaric Acid
Q.290		,
(> -	A) Storage protein	B) Enzymatic protein
	C) Structural protein	D) Hormonal protein
0.291	The two chains of Insulin are held together by	?
<u>.</u>	A) Covalent bond	B) Ionic bond
	C) Hydrogen bond	D) Di-sulfide bridges
Q.292	Cholesterol is the basis of	,
_	A) Starch	B) Carbohydrate
	C) Protein	D) Steroids
Q.293	No of Atoms In Hemoglobin are:	
	A) 574	B) 9517
	C) 9512	D) 57491

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Q.294	Which form head in phospholipids?	
	A) Fatty acids	B) Glycerol
	C) Phosphoric acid	D) Phosphoric acid and nitrogen group
Q.295	Percentage of lipoprotein in bacterial cel	
	A) 15	B) 22
	C) 3	D) 18
0.296	For the synthesis of 1gm of glucose solar	,
	A) 71.76 Kcal	B) 7177.0 Kcal
	C) 717.6 Kcal	D) 717600 Kcal
0.297	One of the following chemical bonds is no	,
	A) Hydrogen bonds	B) Hydrophobic bonds
	C) Peptide bonds	D) Ionic bonds
0.298	Which is an aldo sugar?	
	A) Dihydroxyacetone	B) Glyceraldehyde
	C) Fructose	D) Ribulose
0.299	Which of the following enzyme is non —	
C	A) Ribozyme	B) Lipase
	C) Amylase	D) Sucrase
0.300		ubstrate, the most effective way to obtain an
	even faster yield of products would be:	
	A) Add more of the enzymes	B) Add an allosteric inhibitor
	C) Add more substrate	D) Add a non-competitive inhibitor
0.301		defined by their ability to interact or bind
	to .	
	A) The active site of an enzyme	C) Non-competitive inhibitor
	B) Regulatory sub-units of an enzyme	D) Enzyme cofactors
0.302		identifies the structural formulae shown in
	figure?	
		OCH.
		ОН
	HO OH OH	
	ОН	он он
	0.0000.0	
	A	В
	A) A — Fructose, B — Ribose	B) A — Glucose, B — Deoxyribose
	C) A — Glucose B — Ribose	D) A — Glucose B — Fructose
Q.303	The detachable cofactor if it is an inorga	
	A) Activator	B) Coenzyme
	C) Prosthetic group	D) All of these
Q.304	Chymotrypsin has optimum PH	,
	A) 7.60	B) 5.50
	C) 6.80	D) 7.00 - 8.00
Q.305	Which of the following is covalently bour	nded cofactor?
	A) Prosthetic group	B) ATP
	C) NADP	\dot{D}) Mg^{2+}
Q.306	Which of the following is most unstable?	,
	A) Product	B) Substrate
	C) Enzyme-substrate complex	D) None of these
Q.307	, , , , , , , , , , , , , , , , , , , ,	ape and chemistry of an enzyme is known
	A) Anti-steric inhibitor	B) Non- Steric inhibitor
	C) Competitive inhibitor	D) Non-competitive inhibitor
Q.308	, .	ne action decreases because the Increased
	heat:	
	A) Changes the pH of the system	B) Neutralize acids and bases in the system
	C) Alters the active site of the enzyme	D) Increases the concentration of enzymes,
Q.309	A fatty acid is a compound made of a cha	· ·
	A) An acid group at one end	B) An amino group
	C) Acid group at both ends	D) Amino group at both ends

Q.310	protein has quaternary structure.	
_	A) keratin	B) Silk
	C) Hemoglobin	D) Fibrin
Q.311	Which bond provides stability to complex carbohydrate	
	A) N-C	B) C-O-C
0.44	C) P-O-C	D) C-O-N
Q.312	Blood contains — percent of glucose.	D) 0.000/
	A) 0.8 %	B) 0.08%
0.212	C) 0.06%	D) 6%
Q.313	Most common acyl glycerol is	D) Dlant foto
	A) Animal fats C) Triagvalatyagral	B) Plant fats D) Diagraphysers1
O 214	C) Triacyclglycerol The basic unit of nucleic acid is	D) Diacylglycerol
Q.314	A) Pentose sugar	B) Nucleoid
	C) Nucleoside	D) Nucleotide
0.315	MRNA have AUG for methionine what will be present of	/ /
Q.515	A) Atg	B) Tac
	C) Tag	D) Uac
Q.316	Which of the following groups are all polysaccharides?	
		cogen, sucrose and maltose
		cogen, cellulose and starch
Q.317	Lactose is composed of	
	A) Glucose + galactose	B) Glucose + fructose
	C) Fructose + galactose	D) Glucose + glucose
Q.318	Which of the following categories includes all others in	
	A) Monosaccharide	B) Carbohydrate
0.210	C) Disaccharide	D) Polysaccharide
Q.319	Which of following is precursor of sex hormones.	D) I '41'
	A) Carbohydrates	B) Lecithin
O 220	C) Steroid The structural level of a protein least affected by a disc	D) All of these
Q.320	The structural level of a protein least affected by a disr	uption in hydrogen bonding
	A) Primary level	B) Quaternary level
	C) Secondary level	D) All structural levels
Q.321	is the first microbe to have genome co	,
	published in july 28,1995.	
	A) Streptococci Pneumonia	B) Campylobacter
	C) Haemoplrilus	D) Saccharomyces
Q.322	The molecular formula for glucose is C6H12O6. Wh	
	formula for a polymer made by linking ten gluc	ose molecules together by
	dehydration reactions?	
		D) C II O
	A) $C_{60}H_{120}O_{60}$	B) C ₆₀ H ₁₀₀ O ₆₀
0 222	C) $C_{60}H_{111}O_{51}$	B) C ₆₀ H ₁₀₀ O ₆₀ D) C ₆₀ H ₁₀₂ O ₅₁
Q.323	C) C ₆₀ H ₁₁₁ O ₅₁ No, of Amino acid found to be occur in cells & tissue are:	D) $C_{60}H_{102}O_{51}$
Q.323	C) C ₆₀ H ₁₁₁ O ₅₁ No, of Amino acid found to be occur in cells & tissue are: A) 20	D) C ₆₀ H ₁₀₂ O ₅₁ B) 170
_	C) C ₆₀ H ₁₁₁ O ₅₁ No, of Amino acid found to be occur in cells & tissue are: A) 20 C) 25	D) $C_{60}H_{102}O_{51}$
_	C) C ₆₀ H ₁₁₁ O ₅₁ No, of Amino acid found to be occur in cells & tissue are: A) 20 C) 25 Iodine gives a red colour with:	D) C ₆₀ H ₁₀₂ O ₅₁ B) 170 D) 300 more then
_	C) C ₆₀ H ₁₁₁ O ₅₁ No, of Amino acid found to be occur in cells & tissue are: A) 20 C) 25 Iodine gives a red colour with: A) Starch	 D) C₆₀H₁₀₂O₅₁ B) 170 D) 300 more then B) Dextrin
Q.324	C) C ₆₀ H ₁₁₁ O ₅₁ No, of Amino acid found to be occur in cells & tissue are: A) 20 C) 25 Iodine gives a red colour with: A) Starch C) Glycogen	 D) C₆₀H₁₀₂O₅₁ B) 170 D) 300 more then B) Dextrin D) Inulin
Q.324	C) C ₆₀ H ₁₁₁ O ₅₁ No, of Amino acid found to be occur in cells & tissue are: A) 20 C) 25 Iodine gives a red colour with: A) Starch C) Glycogen Each turn of α-helix contains the amino acid residues (note that the colour with the colour with the amino acid residues (note that the colour with the colour with the amino acid residues (note that the colour with the	D) C ₆₀ H ₁₀₂ O ₅₁ B) 170 D) 300 more then B) Dextrin D) Inulin umber):
Q.324	C) C ₆₀ H ₁₁₁ O ₅₁ No, of Amino acid found to be occur in cells & tissue are: A) 20 C) 25 Iodine gives a red colour with: A) Starch C) Glycogen	 D) C₆₀H₁₀₂O₅₁ B) 170 D) 300 more then B) Dextrin D) Inulin
Q.324 Q.325	C) C ₆₀ H ₁₁₁ O ₅₁ No, of Amino acid found to be occur in cells & tissue are: A) 20 C) 25 Iodine gives a red colour with: A) Starch C) Glycogen Each turn of α-helix contains the amino acid residues (n A) 3.6	D) C ₆₀ H ₁₀₂ O ₅₁ B) 170 D) 300 more then B) Dextrin D) Inulin umber): B) 3.0
Q.324 Q.325	C) C ₆₀ H ₁₁₁ O ₅₁ No, of Amino acid found to be occur in cells & tissue are: A) 20 C) 25 Iodine gives a red colour with: A) Starch C) Glycogen Each turn of α-helix contains the amino acid residues (n A) 3.6 C) 4.2	D) C ₆₀ H ₁₀₂ O ₅₁ B) 170 D) 300 more then B) Dextrin D) Inulin umber): B) 3.0
Q.324 Q.325 Q.326	C) C ₆₀ H ₁₁₁ O ₅₁ No, of Amino acid found to be occur in cells & tissue are: A) 20 C) 25 Iodine gives a red colour with: A) Starch C) Glycogen Each turn of α-helix contains the amino acid residues (n. A) 3.6 C) 4.2 Nitrogen base in a phospholipid molecule attached with A) Phosphoric C) Acetic Acid	D) C ₆₀ H ₁₀₂ O ₅₁ B) 170 D) 300 more then B) Dextrin D) Inulin umber): B) 3.0 D) 4.5 B) Butaric Acid D) Palmitic Acid
Q.324 Q.325 Q.326	C) C ₆₀ H ₁₁₁ O ₅₁ No, of Amino acid found to be occur in cells & tissue are: A) 20 C) 25 Iodine gives a red colour with: A) Starch C) Glycogen Each turn of α-helix contains the amino acid residues (n. A) 3.6 C) 4.2 Nitrogen base in a phospholipid molecule attached with A) Phosphoric C) Acetic Acid Protection against sudden thermal change is carried out	D) C ₆₀ H ₁₀₂ O ₅₁ B) 170 D) 300 more then B) Dextrin D) Inulin umber): B) 3.0 D) 4.5 B) Butaric Acid D) Palmitic Acid toy the help of:
Q.324 Q.325 Q.326	C) C ₆₀ H ₁₁₁ O ₅₁ No, of Amino acid found to be occur in cells & tissue are: A) 20 C) 25 Iodine gives a red colour with: A) Starch C) Glycogen Each turn of α-helix contains the amino acid residues (n. A) 3.6 C) 4.2 Nitrogen base in a phospholipid molecule attached with A) Phosphoric C) Acetic Acid Protection against sudden thermal change is carried out A) Water	B) 170 D) 300 more then B) Dextrin D) Inulin umber): B) 3.0 D) 4.5 B) Butaric Acid D) Palmitic Acid to the help of: B) Salt
Q.324 Q.325 Q.326 Q.327	C) C ₆₀ H ₁₁₁ O ₅₁ No, of Amino acid found to be occur in cells & tissue are: A) 20 C) 25 Iodine gives a red colour with: A) Starch C) Glycogen Each turn of α-helix contains the amino acid residues (n. A) 3.6 C) 4.2 Nitrogen base in a phospholipid molecule attached with A) Phosphoric C) Acetic Acid Protection against sudden thermal change is carried out A) Water C) Ions	D) C ₆₀ H ₁₀₂ O ₅₁ B) 170 D) 300 more then B) Dextrin D) Inulin umber): B) 3.0 D) 4.5 B) Butaric Acid D) Palmitic Acid toy the help of:
Q.324 Q.325 Q.326 Q.327	C) C ₆₀ H ₁₁₁ O ₅₁ No, of Amino acid found to be occur in cells & tissue are: A) 20 C) 25 Iodine gives a red colour with: A) Starch C) Glycogen Each turn of α-helix contains the amino acid residues (n A) 3.6 C) 4.2 Nitrogen base in a phospholipid molecule attached with A) Phosphoric C) Acetic Acid Protection against sudden thermal change is carried out A) Water C) Ions Percentage of water in an average brain cell is	D) C ₆₀ H ₁₀₂ O ₅₁ B) 170 D) 300 more then B) Dextrin D) Inulin umber): B) 3.0 D) 4.5 B) Butaric Acid D) Palmitic Acid t by the help of: B) Salt D) Bonds
Q.324 Q.325 Q.326 Q.327	C) C ₆₀ H ₁₁₁ O ₅₁ No, of Amino acid found to be occur in cells & tissue are: A) 20 C) 25 Iodine gives a red colour with: A) Starch C) Glycogen Each turn of α-helix contains the amino acid residues (n. A) 3.6 C) 4.2 Nitrogen base in a phospholipid molecule attached with A) Phosphoric C) Acetic Acid Protection against sudden thermal change is carried out A) Water C) Ions	B) 170 D) 300 more then B) Dextrin D) Inulin umber): B) 3.0 D) 4.5 B) Butaric Acid D) Palmitic Acid to the help of: B) Salt

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Q.329	Which property of lipids is significant for	r structural role	e of plasma membrane?
	A) Hydrophilic		B) Hydrophobic
	C) Catenation		D) Conjugation
Q.330	· · · · · · · · · · · · · · · · · · ·	water	D) =00/
	A) 60%		B) 70%
O 221	C) 80%		D) 90%
Q.331	Two molecules belonging to different cate		
	A) MacromoleculesC) Conjugated molecules		B) Heteromolecules
O 332	The discovery about the presence of eq		D) None
Q.332	guanine and cytosine in DNA was elucida		adennic and thymine, also
	A) Erwin Chargaff		B) Fred Sanger
	C) James Watson		D) Francis crick
0.333	Which makes the protein active and glo		,
	shape and function to the protein?		
	A) Primary structure	B) Secondary s	structure
	C) Tertiary structure	D) Sulphide bo	onds and peptide bonds
Q.334	Which of following used X-Rays diffracti	on of DNA	
	A) Erwin Charga		B) Maurice Wllkins
	C) James D-Watson		D) Francis Crick
Q.335	Which one of the graphs shows the effect	of pH on the er	nzymatic activity (EA)?
	(a) EA	(b) EA	
	nH	*	рН
	pri		Pi.
			<i>J</i>
	EA	(d) EA	
	(c) EA	(d) LA	
	pH	- 17	pH
O 336	Root tubers are rich source of:		Service 1
Q. 330	A. Carbohydrates	B. Lipids	
		D. Vitamins	
0 227	C. Proteins	D. Vitallillis	
Q.33/	Primary source of energy in any cell is:	D D 1 1	• 1
	A. Monosaccharides	B. Polysacchar	
	C. Oligosaccharides	D. Polypeptide	es
Q.338	Carbohydrates are the main constituent		
	A. Plants	B. Fungi	
	C. Algae	D. All A, B, C	
Q.339	The reduction of the contact area betwee	n water and hy	drophobic substances which
	are placed in water is termed as:		
	A. Cohesion	B. High polarit	ty
	C. Adhesion	D. Hydrophob	ic exclusion
Q.340	In general formula of carbohydrates, 'x'		
	in:	·	
	A. Glucose	B. Maltose	
	C. Sucrose	D. Starch	
O 341			any carbohydrata is:
4.241	Minimum number of carbon atoms that of		any carbonyurate is:
	A.6	B. 3	10
0.242	C. 2	D. More than 1	I U
Q.342	Glycolipids and glycoproteins are found in	_	
	A. Extracellular matrix of animals	B. Biological r	
	C. Bacterial cell wall	D. Plant cell w	rall

Q.343		s wnich on nyarolysis yleia polynyaroxy
	aldehyde or ketone subunits. This definit	ion is not applicable to:
	A. Monosaccharides	B. Polysaccharides
	C. Oligosaccharides	D. Disaccharides
Q.344	The carbon without hydroxyl group in st	
	A. Carbon 2	B. Carbon 5
	C. Carbon 3	D. Carbon 6
Q.345	1,4 glycosidic linkage is found in all of the	-
	A. Sucrose	B. Lactose
	C. Maltose	D. Amylopectin
Q.346	Cellulose cannot be digested by amylase	
	A. It contain 1,4-glyosidic linkages	B. It is unbranched
0.245	C. It is insoluble in water	D. It contains β-glucose
Q.34 7	These are heterogeneous group of compo	
	A. Carbohydrates	B. Lipids
0.240	C. Proteins	D. Nucleic acids
Q.348		formed by condensation reaction between:
	A. Fatty acids and water	B. Fatty acids and alcohol
0.240	C. Fatty acids and glucose	D. Fatty acids and phosphates
Q.349	All of the following functions are related	
	A. Components of cellular membranes	
0.250		D. Protection from water loss
Q.350	It acts as water barrier on surface of leav	
	A. Cutin	B. Carotenoids
0.251	C. Triglyceride	D. Phosphatidylcholine
Q.351	Waxes contain all of the following except	
	A. Nitrogenous base	B. Fatty acid
0.252	C. Alkane	D. Alcohol
Q.352	It is an example of macromolecule:	D. A.T.D.
	A. Water	B. ATP
0.252	C. Amino acid	D. mRNA
Q.353	Most abundant type of lipid in plant, anim	
	A. Phospholipid	B. Steroid
0.254	C. Terpenoids	D. Sphingolipids
Q.354	All of the following are features of oils ex	
	A. Unsaturated fatty acids	B. Mostly obtained from plants
0.355	C. Liquid at room temperature	D. Can be crystallized
Q.355	Terpenoids are made of:	D. I
	A. Fatty acids	B. Isoprenoid units
0.356	C. Amino acids	D. Nucleotides
Q.356	All proteins contain all of the following el	• •
	A. Hydrogen	B. Oxygen
0.355	C. Nitrogen	D. Sulphur
Q.357	Most of the proteins are made of:	D 25.4
	A. 20 types of amino acids	B. 25 types of amino acids
0.250	C. 45 types of amino acids	D. 64 types of amino acids
Q.358	All the amino acids have all of the follows	
	A. –NH ₂	BCOOH
0.250	C. H	D. –CH ₃
Q.359	Smallest amino acid in nature is:	D 111 (11)
	A. Valine	B. Histidine
0.000	C. Glycine	D. Alanine
Q.360	All of the following are true about globul	
	A. Spherical	B. Soluble in aqueous media
	C. Inelastic	D. More stable

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Q.361 These are reactive parts of amino acids involved in condensation reactions:

- A. Alpha carbon & Hydrogen
- B. Amino & Carboxyl groups
- C. Carboxyl group & R group
- D. Only R group

Q.362 It is an example of fibrous protein:

A. Haemoglobin

B. Pepsin

C. Keratin

- D. Albumin
- Q.363 Formation of a phosphodiester linkage involves:
 - A. Hydrolysis

B. Dehydration synthesis

C. Hydrogen bonding

- D. Oxidation
- Q.364 The amount of DNA is fixed for a particular species, as it depends upon:
 - A. Number of genes

- B. Amount of RNA
- C. Number of chromosomes
- D. Size of cell
- Q.365 Secondary structure of DNA duplex is maintained by:
 - A. Phosphodiester linkage
- B. Hydrogen bond

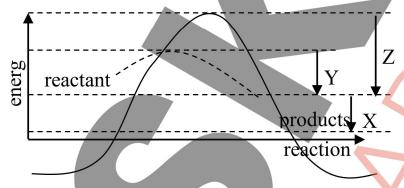
C. Ionic bond

- D. Hyperphobic interaction
- Q.366 In a living cell, reactions without enzymes would:
 - A. Stop

B. Speed up

C. Slow down

- D. Occur at normal pace
- Q.367 The diagram illustrates energy changes in an enzyme-controlled reaction.



Which of the following represents the lowering of the activation energy?

A. X

B. X+Y

C. Y-Z

D. Z-Y

Q.368 The charge and shape of the active site is formed by:

A. Cofactor

B. Amino acids

C. Allosteric site

D. Globular shape

Q.369 All the enzyme active sites are occupied when:

- A. Enzyme concentration is high
- B. Substrate concentration is high

C. Temperature is high

D. pH is high

Q.370 It works in highly alkaline medium:

A. Catalase

B. Chymotrypsin

C. Pancreatic lipase

D. Arginase

Q.371 All of the following enzymes work in acidic environment except:

A. Pepsin

B. Sucrase

C. Enterokinase

D. Pancreatic lipase

Q.372 They occupy the active sites by forming covalent bonds or they may physically block the active sites, permanently

- A. Irreversible inhibitors
- B. Reversible inhibitors
- C. Competitive inhibitors
- D. Non-competitive inhibitors

Q.373 Heat accelerates chemical reactions because it:

- A. Provides activation energy
- B. Supplies kinetic energy to reacting molecules
- C. Increases chances of collisions between reactant molecules
- D. All A, B, C

Q.374 Enzymes are essential in our body because they:

- A. Provide energy for metabolism
- B. Catalyze biochemical reactions in cell
- C. Are structural components of the body
- D. Coordinate nervous activities of body

Q.375 At low temperature enzymes are: A. Degraded B. Inactivated D. Highly effective C. Denatured Q.376 Which form of carbohydrate is found in RNA? B. Keto pentose A. Aldo pentose C. Aldo hexose D. Keto hexose of DNA: Q.377 Histones are linked to A. Nitrogenous base B. Phosphate D. Deoxyribose C. Ribose Q.378 Which one of the following is not an amino acid? B. Alanine A. Choline D. Glutamic acid C. Arginine Q.379 Which of the following is a nucleoside? B. Adenosine A. cAMP D. ATP C. Adenine Q.380 Which of the following would be least affected when a protein is denatured? B. Tertiary structure A. Primary structure D. Quaternary structure C. Secondary structure Q.381 It is correct for biomolecules. A. DNA is a polymer of ribonucleotides B. All carbohydrates are broken down into glucose C. Sequence of amino acids determines primary structure D. RNA is single stranded and contains different purine bases other than in DNA Q.382 What is the most important property of water for which it is needed in the body? A. It exists in three physical states B. It acts as universal solvent C. It is tasteless and odorless D. It is made up of hydrogen and oxygen Q.383 Which of the following yields twice as many calories per gram as carbohydrates? B. Proteins A. Fats D. Vitamins C. Minerals Q.384 Murein present in bacterial cell wall is an example of: A. Macromolecules B. Conjugated molecules C. Micro-molecules D. Organic molecules Q.385 It is the major portion of RNA in the cell: A. mRNA B. tRNA D. Rdna C. rRNA Q.386 The type of covalent bond that is formed between two monosaccharides is known as: A. Ester bond B. Hydrogen bond C. Peptide bond D. Glycosidic bond Q.387 The bond synthesized between glucose and fructose to form sucrose is: A. α-1, 4 Glycosidic linkage B. α-1, 2 Glycosidic linkage C. β-1, 2 Glycosidic linkage D. α -1, 6 Glycosidic linkage Q.388 Carbohydrates are organic molecules and contain which elements? A. Carbon, Water and Oxygen B. Carbon, hydrogen and oxygen C. Carbon, Nitrogen and Hydrogen D. Carbon, Sulphur and Hydrogen Q.389 The intermediates found in both respiration and photosynthesis are: II. Glyceraldehydes, III. Ribose, IV. Dihydroxyacetone A. I and III B. III and IV C. II and III D. II and IV Q.390 The most abundant carbohydrate in nature is: B. Lactose C. Glycogen D. Cellulose Q.391 Which of the following is an aldose sugar? A. Glyceraldehyde B. Fructose D. Ribulose C. Dihydroxyacetone

Q.392	ine phospholipia molecule consists of	ends that are
	A. 2; fatty acids & glycerol	
	B. 2; hydrophilic head & hydrophobic tail	
	C. 3; fatty acids, glycerol & phosphate group	p
	D. 2; hydrophobic head & tail	
Q.393	The amino acid having hydrogen as R-gro	oup is:
_	A. Alanine	B. Glutamic acid
	C. Glycine	D. Valine
Q.394	Which one of the following sets is correct	set that belongs to polysaccharides?
	A. Glycogen, Starch, Sucrose	B. Cellulose, Starch, Maltose
	C. Starch, Chitin, Cellulose	D. Steroid, Glycogen, Starch
0.395	The chemical nature of cell walls in plant	
	A. Nucleic acid in nature	B. Protein in nature
	C. Lipid in nature	D. Carbohydrate in nature
0.396	Three fatty acids and one glycerol → Trig	
(,	The above reaction shows:	
	A. Condensation reaction	B. Hydrogenation
	C. Hydration	D. Hydrolysis
0.397	In simple carbohydrates the ratio of hydr	
Qios i	A. Same as in lipids	B. Same as in nucleic acids
	C. Same as in proteins	D. Same as in water
0.398	Find the right statement accordingly.	B. Same as in water
V. 030	I) The most common respiratory substant	ce as a source of energy is haemoglobin.
	II) The reserved food in animals is starch	
	III) The most common respiratory substa	
	A. I only	B. II only
	C. III only	D. I and III
Q.399	Identify the simplest monosaccharide pos	
	A. Erythrose	B. Ribulose
	C. Galactose	D. Ribose
Q.400	Monosaccharides are major components	of:
_	A. DNA, RNA and Oil	B. DNA, NAD and Haemoglobin
	C. DNA, ATP and Milk sugar	D. None of these
7	16. The exoskeleton of butterfly is made u	ıp o <mark>f:</mark>
	A. Silk proteins	B. Fatty acids
	C. Amino acids	D. Chitin
Q.401	Amino acids are organized according to:	
	A. Information present on tRNA	B. Information present on rRNA
	C. Information present on mRNA	D. All of these
Q.402	How many nucleotides are there in tRNA	?
	A. $40 - 50$ nucleotides	B. 1000 nucleotides
	C. 75 – 90 nucleotides	D. $10-50$ nucleotides
Q.403	On hydrolysis, oligosaccharides produce:	
	A. 1-10 monosaccharides	B. 2-10 monosaccharides
	C. 3-7 monosaccharides	D. More than 10 monosaccharides
Q.404	Actin is categorized to which class of prot	teins?
	A. Intermediate	B. Simple
	C. Globular	D. Fibrous
Q.405	Find the odd one out regarding disacchar	ides.
	A. Glucose	B. Sucrose
	C. Fructose	D. Galactose
Q.406	Glycogen looks like:	
	A. Cellulose	B. Amylopectin starch
	C. Amylose starch	D. None of these
Q.407	Glycolipids consists of:	
	A. Polysaccharides + long fatty acids	B. Complex sugars + Alcohol
	C. Simple sugars + Alcohol	D. Simple sugars + Amino acid

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A. -NH₂ groups are present B. Charge bearing -OH groups are present C. -COOH groups are present D. Charge bearing -OH groups are not present Q.409 α -1, 4-glycosidic linkage is formed during the: A. Formation of sucrose B. Formation of lactose C. Formation of maltose D. Both A and C Q.410 Animals release excess heat in hot environment; it is related to which property of water molecules? B. High heat of vapourization A. Hydrophobic exclusion D. High specific heat capacity C. Cohesion Q.411 It is one of two stereoisomers that are mirror images of each other and that are not identical, and is called as: B. Monomers A. Polymers C. Enantiomer D. All of these Q.412 Which of the following is not an unsaturated fatty acid? B. Oleic acid A. Vegetable oils D. Palmitic acid C. Linoleic acid Q.413 Acylglycerols are formed by: A. Condensation reaction between fatty acids and water B. Hydrolysis reaction between fatty acids and glycerol C. Condensation reaction between fatty acids and glycerol D. Hydrolysis reaction between fatty acids and water Q.414 Which one of the following is composed of two monomers? A. Glucose B. Chitin C. Starch D. None of these Q.415 Which one of the following is not composed of one kind of monosaccharides? B. Chitin A. Pectin D. All of these C. Cellulose Q.416 A product of two amino acids is known as: A. Disaccharide B. Diglyceride C. Dipeptide D. None of these Q.417 A change of single nucleotide in DNA is known as: A. Hydrolysis B. Condensation reaction C. Point mutation D. Esterification Q.418 Find the helical structure of protein among the following components. A. β-pleated sheet B. α-pleated sheet C. β-helix D. α-helix Q.419 In solution, most of the monosaccharides form: A. Straight chain B. Ring structure C. Branched chain D. 3D structure Q.420 Proteins at the time of synthesis on ribosomal surface belong to: A. Primary structure of proteins B. Secondary structure of proteins C. Tertiary structure of proteins D. Quaternary structure of proteins Q.421 Glycerol is a: A. Monohydroxy alcohol B. Dihydroxy alcohol C. Trihydroxy alcohol D. Pentahydroxy alcohol Q.422 What is true about phospholipids? I) They are derived from palmitic acid. II) They are derived from nucleic acid. III) They are derived from phosphatidic acid. A. I only B. II only C. III only D. I and III Q.423 Which type of proteins provide immunity? B. Haemoglobin A. Enzyme

Q.408 Triglycerides are called neutral lipids because of:

C. Fibrinogen

D. Antibodies

Q.424 What is produced on complete hydrolysis of starch & glycogen? A. Fructose B. Glucose C. Maltose D. Galactose Q.425 How many – OH groups are there in glycerol? C. 2 D. 4 Q.426 Matrix of bone and cartilage are established by: A. Keratin B. Histone C. Collagen D. Elastin Q.427 Tristearin is a type of simple lipid having molecular formula: A. C₅₇H₁₁₀O₁₁₄ B. $C_{57}H_{104}O_6$ C. C₅₇H₁₁₀O₅₇ D. $C_{57}H_{110}O_6$ Q.428 The monomers of glycogen are: B. β-glucoses A. α-glucoses D. Both a and B C. N-acetyl glucosamine Q.429 Organisms can also survive under ice; it is because of: A. Dehydration process B. Maximum no. of hydrogen bonding among water molecules C. Condensation process D. Both B and C Q.430 The maximum no. of carbon atoms are present in: B. Palmitic acid A. Stearic acid D. All of these have equal no. of carbons C. Acetic acid Q.431 Which one of the following types of lipids is major constituent of cell membrane? A. Cholesterol B. Phospholipid C. Steroid D. Waxes Q.432 Unsaturated fatty acids: A. Have higher melting point B. Are more common in animals C. Are fully saturated with hydrogen D. None of these Q.433 Which type of haemoglobin causes red blood cells to become stiff and sticky? B. HBA A. HBS C. Glutamic acid D. Valine Q.434 Fatty acid contain how many Carbon atoms in their chains? A. 2 to 10 B. 20 only C. 2 to 30 D. 30 only Q.435 Lecithin is another name of: A. Phosphatidic acid B. Choline C. Phosphatidylcholine D. Inositol Q.436 During the formation of ester bond, water (H + OH) molecule is also released; -OH group comes from: A. -COOH group of amino acid B. -OH group of glycerol C. Both of these D. None of these Q.437 Both cohesion and adhesion properties of water molecules are due to: A. Covalent bonding

B. Hydrogen bonding C. Ionic bonding D. All of these Q.438 The structure of a fibrous protein comprises of polypeptide chains in the form of. B. Spherical A. 3D shape C. Filament like shape D. None of these Q.439 Protein category, that is involved in regulation of blood pressure is: A. Fibrinogen B. Haemoglobin C. Antibodies D. Hormones Q.440 The most abundant lipids in living things are: B. Waxes A. Steroids C. Acylglycerol D. Terpenes

Æ	Which one of the following is/are classifi	ied as water soluble and inelastic nature of
	protein(s)?	
	A. Channel protein	B. Myosin
	C. Collagen	D. All of these
Q.442	Lipids contain double amount of ener	gy as compared to the same amount of
	carbohydrates; it is because of:	
	A. Higher proportion of oxygen	B. Higher proportion of C-O bonds
	C. Higher proportion of C-H bonds	D. Lower proportion of C-H bonds
Q.443	How many different types of fatty acid an	re there?
	A. 20 types	B. 30 types
	C. 40 types	D. 50 types
0.444	3' of tRNA is terminated with base seque	**
	A. ACC	B. CCA
	C. CAC	D. AAC
0.445	The fatty acid, butyric acid consists of:	
	A. 2C	B. 4C
	C. 16C	D. 18C
0.446	Identify the peptide bond.	
•	A. –C–P	BC-O
	C. –C–N	D. –C–S
0.447	Cellulase belongs to which class of biomo	
Q.11 7	A. A polysaccharide	B. A disaccharide
	C. A protein	D. An oil
0.448	What is true about RNA molecules?	D. T. Well
Q. I Io	I) They are transcribed from ribosomes.	
	II) They are transcribed from mRNA.	
	III) They are transcribed from DNA tem	nlate
	A. I only	B. II only
	C. III only	D. I and III
0.449	Secondary structure of protein is present	
Q.III	A. Pepsin	B. Keratin
	C. Insulin	D. Haemoglobin
O.450	The protein found in quills is:	B. Haemogreem
Q. IO	A. Keratin	B. Myosin
	C. Elastin	D. Collagen
O 451	What is the proportion of mRNA in total	
Q. 131	A. 1.1% of the total RNA in a cell	
	11. 1.170 of the total Review	B 2 to 4% of the total RNA in a cell
	C. 5% of the total RNA in a cell	B. 2 to 4% of the total RNA in a cell
O 452	C. 5% of the total RNA in a cell Which type of RNA is the longest among	D. 6% of the total RNA in a cell
Q.452	Which type of RNA is the longest among	D. 6% of the total RNA in a cell the types of RNA?
Q.452	Which type of RNA is the longest among A. mRNA	D. 6% of the total RNA in a cell the types of RNA? B. tRNA
	Which type of RNA is the longest among A. mRNA C. rRNA	D. 6% of the total RNA in a cell the types of RNA? B. tRNA D. Either A or B
	Which type of RNA is the longest among A. mRNA C. rRNA Which of the following is a polysaccharid	D. 6% of the total RNA in a cell the types of RNA? B. tRNA D. Either A or B le present in human muscle?
	Which type of RNA is the longest among A. mRNA C. rRNA Which of the following is a polysaccharid (a) amylase	D. 6% of the total RNA in a cell the types of RNA? B. tRNA D. Either A or B le present in human muscle? (b) collagen
Q.453	Which type of RNA is the longest among A. mRNA C. rRNA Which of the following is a polysaccharid (a) amylase (c) glycogen	D. 6% of the total RNA in a cell the types of RNA? B. tRNA D. Either A or B le present in human muscle? (b) collagen (d) myoglobin
Q.453	Which type of RNA is the longest among A. mRNA C. rRNA Which of the following is a polysaccharid (a) amylase (c) glycogen At which levels of protein structure do hy	D. 6% of the total RNA in a cell the types of RNA? B. tRNA D. Either A or B le present in human muscle? (b) collagen (d) myoglobin
Q.453	Which type of RNA is the longest among A. mRNA C. rRNA Which of the following is a polysaccharid (a) amylase (c) glycogen At which levels of protein structure do hy (a) primary, secondary and tertiary	D. 6% of the total RNA in a cell the types of RNA? B. tRNA D. Either A or B le present in human muscle? (b) collagen (d) myoglobin ydrophobic interactions occur?
Q.453	Which type of RNA is the longest among A. mRNA C. rRNA Which of the following is a polysaccharid (a) amylase (c) glycogen At which levels of protein structure do hy (a) primary, secondary and tertiary (b) primary, secondary, tertiary and quatern	D. 6% of the total RNA in a cell the types of RNA? B. tRNA D. Either A or B le present in human muscle? (b) collagen (d) myoglobin ydrophobic interactions occur?
Q.453	Which type of RNA is the longest among A. mRNA C. rRNA Which of the following is a polysaccharid (a) amylase (c) glycogen At which levels of protein structure do hy (a) primary, secondary and tertiary (b) primary, secondary, tertiary and quatern (c) tertiary and quaternary	D. 6% of the total RNA in a cell the types of RNA? B. tRNA D. Either A or B le present in human muscle? (b) collagen (d) myoglobin ydrophobic interactions occur?
Q.453 Q.454	Which type of RNA is the longest among A. mRNA C. rRNA Which of the following is a polysaccharid (a) amylase (c) glycogen At which levels of protein structure do hy (a) primary, secondary and tertiary (b) primary, secondary, tertiary and quatern (c) tertiary and quaternary (d) quaternary only	D. 6% of the total RNA in a cell the types of RNA? B. tRNA D. Either A or B le present in human muscle? (b) collagen (d) myoglobin ydrophobic interactions occur?
Q.453 Q.454	Which type of RNA is the longest among A. mRNA C. rRNA Which of the following is a polysaccharid (a) amylase (c) glycogen At which levels of protein structure do hy (a) primary, secondary and tertiary (b) primary, secondary, tertiary and quatern (c) tertiary and quaternary (d) quaternary only A peptide bond is formed between	D. 6% of the total RNA in a cell the types of RNA? B. tRNA D. Either A or B le present in human muscle? (b) collagen (d) myoglobin ydrophobic interactions occur? ary
Q.453 Q.454	Which type of RNA is the longest among A. mRNA C. rRNA Which of the following is a polysaccharid (a) amylase (c) glycogen At which levels of protein structure do hy (a) primary, secondary and tertiary (b) primary, secondary, tertiary and quatern (c) tertiary and quaternary (d) quaternary only A peptide bond is formed between (a) an aldehyde group and an amino group	D. 6% of the total RNA in a cell the types of RNA? B. tRNA D. Either A or B le present in human muscle? (b) collagen (d) myoglobin ydrophobic interactions occur? ary (b) an aldehyde group and a carboxyl group
Q.453 Q.454 Q.455	Which type of RNA is the longest among A. mRNA C. rRNA Which of the following is a polysaccharid (a) amylase (c) glycogen At which levels of protein structure do hy (a) primary, secondary and tertiary (b) primary, secondary, tertiary and quatern (c) tertiary and quaternary (d) quaternary only A peptide bond is formed between (a) an aldehyde group and an amino group (c) an aldehyde group and an ester group	D. 6% of the total RNA in a cell the types of RNA? B. tRNA D. Either A or B le present in human muscle? (b) collagen (d) myoglobin ydrophobic interactions occur? ary (b) an aldehyde group and a carboxyl group (d) a carboxyl group and an amino group
Q.453 Q.454 Q.455	Which type of RNA is the longest among A. mRNA C. rRNA Which of the following is a polysaccharid (a) amylase (c) glycogen At which levels of protein structure do hy (a) primary, secondary and tertiary (b) primary, secondary, tertiary and quatern (c) tertiary and quaternary (d) quaternary only A peptide bond is formed between (a) an aldehyde group and an amino group (c) an aldehyde group and an ester group A sequence of amino acids may end is eigen	D. 6% of the total RNA in a cell the types of RNA? B. tRNA D. Either A or B le present in human muscle? (b) collagen (d) myoglobin ydrophobic interactions occur? ary (b) an aldehyde group and a carboxyl group (d) a carboxyl group and an amino group ther an amino group (-NH2) or a carboxyl
Q.453 Q.454 Q.455	Which type of RNA is the longest among A. mRNA C. rRNA Which of the following is a polysaccharid (a) amylase (c) glycogen At which levels of protein structure do hy (a) primary, secondary and tertiary (b) primary, secondary, tertiary and quatern (c) tertiary and quaternary (d) quaternary only A peptide bond is formed between (a) an aldehyde group and an amino group (c) an aldehyde group and an ester group A sequence of amino acids may end is eigroup (-COOH). What is the theoretical	D. 6% of the total RNA in a cell the types of RNA? B. tRNA D. Either A or B le present in human muscle? (b) collagen (d) myoglobin ydrophobic interactions occur? ary (b) an aldehyde group and a carboxyl group (d) a carboxyl group and an amino group ther an amino group (-NH2) or a carboxyl number of chemically different dipeptides
Q.453 Q.454 Q.455	Which type of RNA is the longest among A. mRNA C. rRNA Which of the following is a polysaccharid (a) amylase (c) glycogen At which levels of protein structure do hy (a) primary, secondary and tertiary (b) primary, secondary, tertiary and quatern (c) tertiary and quaternary (d) quaternary only A peptide bond is formed between (a) an aldehyde group and an amino group (c) an aldehyde group and an ester group A sequence of amino acids may end is eigroup (-COOH). What is the theoretical that may be assembled from 20 different	D. 6% of the total RNA in a cell the types of RNA? B. tRNA D. Either A or B le present in human muscle? (b) collagen (d) myoglobin ydrophobic interactions occur? ary (b) an aldehyde group and a carboxyl group (d) a carboxyl group and an amino group ther an amino group (-NH2) or a carboxyl number of chemically different dipeptides amino acids?
Q.453 Q.454 Q.455	Which type of RNA is the longest among A. mRNA C. rRNA Which of the following is a polysaccharid (a) amylase (c) glycogen At which levels of protein structure do hy (a) primary, secondary and tertiary (b) primary, secondary, tertiary and quatern (c) tertiary and quaternary (d) quaternary only A peptide bond is formed between (a) an aldehyde group and an amino group (c) an aldehyde group and an ester group A sequence of amino acids may end is eigroup (-COOH). What is the theoretical	D. 6% of the total RNA in a cell the types of RNA? B. tRNA D. Either A or B le present in human muscle? (b) collagen (d) myoglobin ydrophobic interactions occur? ary (b) an aldehyde group and a carboxyl group (d) a carboxyl group and an amino group ther an amino group (-NH2) or a carboxyl number of chemically different dipeptides

Q.457	7 The secondary order of protein structure is		
	(a) the sequence of amino acids in the polypeptide chain		
	(b) the formation of peptide bonds between amino acids		
	(c) the coiling of the polypeptide chain		
	(d) the folding of the coiled polypeptide c	hain	
Q.458	Polysaccharides are synthesized in plan	ts by the process of	
	(a) condensation	(b) glycolysis	
	(c) hydrolysis	(d) oxidation	
Q.459	Most polysaccharides are composed of	chains of condensed	
	(a) cellulose units	(b) hexose units	
	(c) pentose units	(d) sucrose units	
Q.460	Which one of the following types of bor	d is principally concerned in maintaining the	
	alpha – helix shape of secondary protei	n structure?	
	(a) disulphide bonds	(b) ester bonds	
	(c) hydrogen bonds	(d) peptide bonds	
Q.461	Which one of the following molecules c	ontains amino acids?	
	(a) ascorbic acid	(b) cellulose	
	(c) collagen	(d) galactose	
Q.462	Which of the following is a complex	of globular protein with non-proteinaceous	
	material?		
	(a) collagen	(b) egg albumen	
	(c) haemoglobin	(d) fibrinogen	
Q.463	What does a haemoglobin molecule con		
	(a) Four iron (Fe ²⁺⁾ ions attached to each 1		
	(b) Four oxygen molecules attached to ear		
	(c) Four polypeptide chains each with four		
	(d) four polypeptide chains each with one		
Q.464	Which of the following does not contain		
	(a) Carbonic anhydrase	(b) glycogen	
	(c) haemoglobin	(d) insulin	
Q.465	Which property of proteins enables the	m to act as pH buffers?	
	(a) they are soluble		
	(b) they contain carboxyl and amino grou	ps	
7	(c) they have a high molecular mass		
	(d) they possess both secondary and tertia	ry str <mark>u</mark> cture	
Q.466	Due to polar neuron water molecules at		
	(a) Dipole	(b) Polymers	
	(c) Chain	(d) N.O.T	
Q.467	At which levels of protein structure do	hydrophobic interactions occur?	
	(a) Primary, secondary and tertiary		
	(b) Primary, secondary, tertiary and quate	rnary	
	(c) Tertiary and quaternary		
	(d) Quaternary only		
Q.468	The helical form of a polypeptide chain	is due the presence within the molecule of	
_	(a) Covalent bonds	(b) Disulphide bonds	
	(c) Glycosidic bonds	(d) hydrogen bonds	
Q.469	` / ·	teristic of saturated fats which distinguished	
	them from unsaturated fats?	8	
	() TD1		
	(a) They do not contain glycerol		
	(a) They do not contain glycerol(b) they contain a high proportion by mas	ss of oxygen	
	(b) they contain a high proportion by mas	• •	
	(b) they contain a high proportion by mas(c) They contain only unbranched fatty a	cids	
Q.470	(b) they contain a high proportion by mas(c) They contain only unbranched fatty a(d) They have no double bonds between	cids cheir carbon atoms	
Q.470	(b) they contain a high proportion by mas(c) They contain only unbranched fatty a	cids cheir carbon atoms	

Q.471 Which type of bond maintains the helix shape of secondary proteins structure? (a) disulphide (b) ester (c) hydrogen (d) peptide Q.472 Which molecule contains peptide bonds? (a) ATP (b) Collagen (d) maltose (c) DNA Q.473 Life emerges on the level of (a) Organelle (b) Biomolecules (c) Cell (d) Organisms Q.474 Select the correct statement regarding ecosystem (a) Several species living and interacting in the same area (b) Members of the same species living in close association in given area (c) Entire surface region of the world inhabited by living things (d) Community with its environment Q.475 All are advantages of hydroponics else? (a) Control weeds and soil disease problem (b) Area require for cultivation increase (c) Crop successfully grown in arid parts of the world (d) Determine role of mineral Q.476 During process of condensation, seven monomers of glucose (C₆H₁₂O₆) condensed to form polymer having molecular formula? (a) $C_{42}H_{76}O_{40}$ (b) C₄₂H₇₆O₄₂ (d) C₄₂H₇₂O₃₆ (c) $C_{42}H_{72}O_{42}$ Q.477 Straight chain of glucose in polysaccharide form (a) Amylose (b) Amylopectin (c) Amylase (d) Starch Q.478 Select incorrect statement (a) Small size terpenes are volatile in nature and made up of C5H8 (b) Cholesterol a precursor for the synthesis of Oxytocin hormone (c) Derivates of some terpenes are found in Vitamin A1 and A2 (d) Waxes contain one molecule of fatty acid forming ester bond with long chain of alcohol. O OHNH₂OH Is structural formula of Q.479 (a) Glycine (b) Serine (c) Alanine (d) Phenlyalanine Q.480 All are sources of protein except. (a) Egg (b) Meat (d) Pulses (c) Stearin Q.481 During nucleotide formation nitrogenous base attached with which carbon of pentose? (a) First carbon (b) Second carbon (c) Third carbon (d) Fifth Carbon Q.482 Select the correct statement regarding ATP? (a) ATP an energy carrier molecule (b) Mononucleotide act as co-enzyme (c) When loss one phosphate produce 31.81 Kj energy (d) All of These Q.483 Protein having peptide, hydrogen, ionic and disulphide bond.

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(a) Primary structure protein

(c) Tertiary structure protein

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(b) Secondary structure protein

(d) Quaternary structure protein

O 494	N/I - 4 - 1 1 4			
Q.484	Most abundent macromolecule of cell.	(h) Ductain		
	(a) Carbohydrate	(b) Protein		
O 195	(c) Lipids	(d) Nucleic acid		
Q.405	5 All living bodies are structurally composed of cells and living cell contain a livin material called.			
	(a) Proplast	(b) Protoplast		
	(c) Protoplasm	(d) Proplasm		
O 486	The compounds produced by living organ	· / •		
Q.100	(a) Active compounds	(b) Reactive compound		
	(c) Biomolecuels	(d) All of these		
Q.487	Most abundant bioelement of human body			
2010 7	(a) Carbon	(b) Hydrogen		
	(c) Oxygen	(d) Nitrogen		
Q.488	Life activities occur in a cell due to the pro			
	(a) Energy	(b) Nutrients		
	(c) Water	(d) ATP		
Q.489	All are monomers else.			
	(a) Amino acid	(b) Glucose		
	(c) Nucelotide	(d) Cellulose		
Q.490	Macromolecules are broken into monom	ers by the process of hydrolysis with the		
	help of.			
	(a) Analytical enzymes	(b) Amylase		
	(c) Hydrolytic enzymes	(d) Maltase		
Q.491	Which is mismatched?			
	(a) Amino acid→ Protein	(b) Glucose \rightarrow Cellulose		
	(c) Fatty acid → Myosin	(d) Nucleotide→ RNA		
Q.492	An enzyme found in tears(lysozymes) is			
	(a) Primary structure Protein	(b) Secondary structure Protein		
0.402	(c) Tertiary structure Protein	(d) Quaternary structure Protein		
Q.493	Head of phospholipids is polar due to			
	(a) Cholesterol	(b) Phosphate		
O 404	(c) Fatty acids	(d) Glycerol		
Q.494	What is the chemical mechanism by which			
	(a) Phosphodiester linkages(c) Dehydration reactions	(b) Hydrolysis (d) Ionia banding of managers		
Q.495	Which of the following polymers contain	(d) Ionic bonding of monomers		
Q. - 73	(a) Starch	(b) Glycogen		
	(c) Cellulose	(d) Chitin		
0.496	Which of the following is not a polymer?	(a) cinim		
~	(a) Glucose	(b) Starch		
	(c) Cellulose	(d) Chitin		
0.407	A les 14 4b les 15 le C1	(b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c		

Q.497 A molecule with the chemical formula C₆H₁₂O₆ is probably a/an

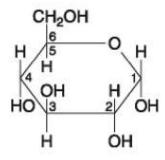
(a) Carbohydrate

(b) Lipid.

(c) Monosaccharide

(d) Both A and C

Q.498 If 2 molecules of the general type shown in given figure were linked together, carbon 1 of one molecule to carbon 4 of the other, the single molecule that would result would be



(a) Maltose.

(b) Sucrose

(c) Glucose

(d) Lactose.

Q.499 Lactose, a sugar in milk, is composed of one glucose molecule joined by a glycosidiclinkage to one galactose molecule. How is lactose classified?

(a) As a pentose

(b) As a hexose

(c) As a monosaccharide

(d) As a disaccharide

(e) As a polysaccharide.

Q.500 All of the following are polysaccharides except

(a) Glucagon

(b) Starch

(c) Chitin

(d) Cellulose

Q.501 Which of the following is true of both starch and cellulose?

- (a) They are both polymers of glucose.
- (b) They are geometric isomers of each other.
- (c) They can both be digested by humans.
- (d) They are both used for energy storage in plants.

Q.502 Which of the following is true of cellulose?

- (a) It is a polymer composed of sucrose monomers.
- (b) It is a storage polysaccharide for energy in plant cells.
- (c) It is a storage polysaccharide for energy in animal cells.
- (d) It is a major structural component of plant cell walls.

Q.503 All of the following statements concerning saturated fats are true except

- (a) They are more common in animals than in plants.
- (b) They have multiple double bonds in the carbon chains of their fatty acids.
- (c) They generally solidify at room temperature.
- (d) They contain more hydrogen than saturated fats having the same number of carbon atoms.

Q.504 A molecule with the formula C₁₈H₃₆O₂ is probably a

(a) Carbohydrate.

(b) Fatty acid.

(c) Protein

(d) Nucleic acid.

Q.505 Which of the following statements is false for the class of biological molecules known as lipids?

- (a) They are soluble in water.
- (b) They are an important constituent of cell membranes.
- (c) They contain more energy than proteins and carbohydrates.
- (d) They are not true polymers.

Q.506 What is a triacylglycerol?

- (a) A protein with tertiary structure
- (b) A lipid made with three fatty acids and glycerol
- (c) A lipid that makes up much of the plasma membrane
- (d) A molecule formed from three alcohols by dehydration reactions

Q.507 Which of the following is true regarding saturated fatty acids?

- (a) They are the predominant fatty acid in corn oil.
- (b) They have double bonds between carbon atoms of the fatty acids.
- (c) They are the principal molecules in lard and butter.
- (d) They are usually liquid at room temperature.

Q.508 Why are human sex hormones considered to be lipids?

- (a) They are essential components of cell membranes.
- (b) They are steroids, which are not soluble in water.
- (c) They are made of fatty acids.
- (d) They are hydrophilic compounds.

Q.509 All of the following contain amino acids except

(a) Hemoglobin.

(b) Cholesterol.

(c) Antibodies.

(d) Enzymes.

Q.510 The bonding of two amino acid molecules to form a larger molecule requires

- (a) The release of a water molecule.
- (b) The release of a carbon dioxide molecule.
- (c) The addition of a nitrogen atom.
- (d) The addition of a water molecule.

Q.511 Polysaccharides, lipids, and proteins are similar in that they

- (a) Are synthesized from monomers by the process of hydrolysis.
- (b) Are synthesized from monomers by dehydration reactions.
- (c) Are synthesized as a result of peptide bond formation between monomers.
- (d) Are decomposed into their subunits by dehydration reactions.
- (e) All contain nitrogen in their monomer building blocks.

Q.512 Dehydration reactions are used in forming which of the following compounds?

- I. Triacylglycerides
- II. Polysaccharides
- **III.Proteins**
- (a) I only

(b) I and II

(c) II and III

(d) I and III (e) I, II and III

Q.513 Upon chemical analysis, a particular polypeptide was found to contain 100 amino acids. How many peptide bonds are present in this protein?

(a) 101

(b) 100

(c) 99

(d) 98 (e) 97

Q.514 At which bond would water need to be added to achieve hydrolysis of the peptide, back toits component amino acid?

Q.515 Which bonds are created during the formation of the primary structure of a protein?

(a) Peptide bonds

(b) hydrogen bonds

(c) Disulfide bonds

(d) Phosphodiester bonds

Q.516 What maintains the secondary structure of a protein?

(a) Peptide bonds

(b) Hydrogen bonds

(c) Disulfide bonds

- (d) Ionic bonds
- (e) Phosphodiester bonds
- Q.517 The molecule shown in given figure is a

(a) Polysaccharide.

(b) Polypeptide.

(c) Saturated fatty acid.

- (d) Triacylglycerol.
- (e) Unsaturated fatty acid.

Q.518 The major purpose of RNA is to

- (a) Transmit genetic information to offspring.
- (b) Function in the synthesis of protein.
- (c) Make a copy of itself thus ensuring genetic continuity.
- (d) Act as a pattern or blueprint to form DNA.

Q.519 Which of the following best describes the flow of information in eukaryotic cells?

- (a) DNA \rightarrow RNA \rightarrow proteins
- (b) RNA \rightarrow proteins \rightarrow DNA
- (c) Proteins \rightarrow DNA \rightarrow RNA
- (d) RNA \rightarrow DNA \rightarrow proteins

Q.520	_	est fits the class of molecules known as			
	nucleotides?				
	(a) A nitrogenous base and a phosphate group				
	(b) A nitrogenous base and a pentose sugar				
	(c) A nitrogenous base, a phosphate group,	-			
	(d) A phosphate group and an adenine or un				
Q.521	Which of the following are nitrogenous b				
	(a) Guanine and Adenine	(b) Cytosine and Uracil			
	(c) Thymine and Guanine	(d) Ribose and Deoxyribose			
Q.522	The element nitrogen is present in all of				
	(a) Proteins.	(b) Nucleic acids.			
	(c) Amino acids.	(d) DNA.			
	(e) Monosaccharides.				
Q.523	Which of the following is a diverse group				
	(a) Carbohydrates	(b) Lipids			
	(c) Proteins	(d) Nucleic acids			
Q.524	Which of the following store and transmi				
	(a) Carbohydrates	(b) Lipids			
	(c) Proteins	(d) Nucleic acids			
Q.525	Which term includes all others in the list				
	(a) Monosaccharide	(b) Disaccharide			
	(c) Starch	(d) Carbohydrate			
	(e) Polysaccharide				
Q.526	Which of the following statements concer	rning unsaturated fats is true?			
	(a) They are more common in animals than	•			
	(b) They have double bonds in the carbon c				
	(c) They generally solidify at room tempera	iture.			
	(d) They contain more hydrogen than satu	rated fats having the same number of carbon			
	atoms.				
Q.527	Life arose in the form of				
	(a) Unicellular eukaryotes	(b) Simple unicellular			
	(c) Simple multicellular	(d) Multicellular prokaryotes			
Q.528	Chemical foundation of life is based on				
	(a) Elements	(b) Atoms			
	(c) Molecules	(d) Cells			
Q.529	Which one of the following is not sweet c	arbohydrate			
	(a) Cellulose	(b) Sucrose			
	(c) Galactose	(d) Lactose			
Q.530	Protein which are consist of two or more				
	(a) Primary structure	(b) Secondary structure			
	(c) Tertiary structure	(d) Quaternary structure			
Q.531	Lipids which are volatile in nature				
	(a) Waxes	(b)Acyglycerol			
	(c)Terpenoids	(d) Phospholipids			
Q.532	All are correct else				
	(a) DNA contain deoxyribose	(b) water control all activities of cell			
	(c) PH of cell is maintain by amino group	(d) Waxes are lipids			
Q.533	Chemical composition of mucoids?				
	(a) Nucleic acid and protein	(b) Lipid and protein			
	(c) Carbohydrate and Protein	(d) Carbohydrate and lipid			
Q.534	Select the correct statement regarding N	AD (nicotinamide adenine dinucleotide)			
	I. Vitamin constituent				
	II. Act as co-enzyme.				
	III. Carrier of electron				
	(a) I and II	(b) I and III			
	(c) II and III	(d) I, II and III			

Q.535	Experiment on bacteriophage experimentally confirmed that?				
	(a) RNA must be the genetic material				
	(b) DNA must be the carrier of information between nucleus and cytoplasm				
	(c) Deoxyribonucleic acid must be the genetic material				
	(d) Ribonucleic acid must be the carrier between nucleus and cytoplasm				
Q.536	Glycolipid in plant cell found in				
	(a) Energy producing cell organelle mitoch	ondria			
	(b) Energy producing cell organelle chloroplast				
	(c) Energy storing vacuole				
	(d) Glycolipid is absent in plant				
Q.537	What will happen in concentration of sub				
	(a) Enzyme activity will keep on increasing	5.			
	(b) Enzyme activity 1st increase then decre				
	(c) Enzyme activity will increase and then	•			
	(d) Enzyme activity will not increase at all.				
Q.538		act shape and distribution of charges". This			
	statement refers the?				
	(a) Key–lock theory	(b) Induce fit model			
	(c) Mosaic model	(d) Above statement is incorrect			
Q.539	Cell use RNA to make?				
	(a) DNA	(b) Protein			
0.740	(c) Chromosomes	(d) Carbohydrate			
Q.540	The holoenzymes in which prosthetic gro				
	(a) Co-factor	(b) Co-enzyme			
0 541	(c) Allosteric group	(d) Apoenzyme			
Q.541	Select the mismatched	(b) Co feeton Monganese			
	 (a) Co-enzyme → NADP (c) FMN → Co-factor 	(b) Co-factor → Manganese(d) Proteozyme → Amylase			
O 542					
Q.342	2 All are correct regarding characteristics of enzymes except? a) Specific in nature and their action				
	b) Their molecules are much smaller than the substrate				
	c) React with both acidic and alkaline substances				
	d) Chemically unchanged during and after r				
0.543	,	actions by binding to a part of the enzyme			
- (away from the active				
	(a) Competitive inhibitor	(b) Non-Competitive inhibitor			
	(c) Activators	(d) Co-factors			
Q.544	Each enzyme contain groove or dimple	?			
	(a) Allosteric site	(b) Active site			
	(c) Binding site	(d) Reactive site			
Q.545	Enzyme activities can be accelerated by				
	(a) Organic co-enzymes like NAD and FAI)			
	(b)Inorganic Co-factors like ADP & NADF				
	(c) Organic co-factors like FMN and ATP				
	(d) Inorganic Activators like Mn, Ni Mg &				
Q.546		when substrate concentration increases by			
	three folds?				
		(b) Enzyme activity increase to three time			
0.545	(c) Enzyme activity increase two time	(d) Enzyme activity reduce three time			
Q.547	Enzymes are				
	I. Proteinaceous in nature				
	II. All are protein in nature				
	III. Lower the amount of activation ener				
	(a) I only	(b) I and III			
	(c) III only	(d) I and III			

(a) Glycolprid (b) Nucleoprotein (c) Nucleoprotein (d) Lipoprotein (d) Lipoprotein (d) Lipoprotein (d) Lipoprotein (d) Lipoprotein (e) Nitorgenous base (e) Nitorgenous base (f) Pentose (d) Nitorgenous base (g) Nitorgenous base and phosphate (g) Nitrogenous base and pentose (g) Competitive inhibitors (g) Competitive activators (g) Competitive activators (g) Competitive activators (g) Competitive activators (g) Non-competitive activators (g) Competitive activators (h) Non-competitive activators (g) Competitive activators (h) Ca (c) Cators (d) Competitive activators (g) Co-factors (g) Co-cators (g) Co-cators (g) Co-cators (g) Co-cators (g) Co-cators (g) Competitive activators (g) Competitive activators (g) Enzymes dramatically decrease the amount of energy of activation. (g) Enzymes dramatically decrease the amount of energy of activation. (g) Enzymes dramatically decrease the amount of energy of activation. (g) Enzymes poduct molecules to release new product molecules. Q.555 If hy adding substrate molecules to release new product molecules. Q.555 If hy adding substrate molecules to release new product molecules. Q.555 Most vitamins are (g) Enzyme activity. (g) Both 'a' and 'b'. Q.556 Most vitamins are (g) Co-cators and Co-factor (g) Co-cators and Co-enzymes (g) Co-cators and co-factor (g) Co-cators an	Q.548	48 Conjugated molecule which is weakly acidic and soluble in water				
Q.549 Two nucleotides are linked by (a) Pentose (b) Phosphate (c) Nitrogenous base (d) None of these Q.550 Nucleoside refer to (a) Nitrogenous base and phosphate (c) Nitrogenous base and phosphate (d) Nitrogenous base and Phosphate (e) Nitrogenous base and pentose (d) Nitrogenous base and Phosphate (e) Nitrogenous base and pentose (d) Non-competitive inhibitors (e) Competitive inhibitors (e) Competitive inhibitors (f) Non-competitive inhibitors (g) Competitive activators (h) Mg (b) Ca (c) Canactors (d) Competitive activators (e) Co-factors (d) Enzymes dramatically decrease the amount of energy of activation. (e) Enzymes dramatically decrease the amount of energy of activation. (d) Enzymes dramatically decrease the amount of energy of activation. (d) Enzymes dramatically decrease the amount of energy of activation. (e) Enzyme molecules become saturated with substrate (b) Enzyme molecules denatured (c) No effect on enzyme activity (d) Both "a" and "b". Q.555 Most vitamins are or raw material from which are made? (a) Co-enzymes and co-factor (c) Co-enzymes and co-factor (c) Co-enzymes and co-factor (d) C Co-enzymes and co-factor (e) Co-enzymes and co-factor (f) C Co-factor and Co-factor (b) Making an endergonic reaction occur spontaneously. (e) Lowering the activation energy. (d) Making the substrate molecule more stable. Q.555 Which statement about enzyme is not true? (a) They are sonsitive to heat. (d) They are son		(a) Glycolipid	(b) Glycoprotein			
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II. Decrease the amount of energy of activation. III. Activated by certain organic ions						
III. Activated by certain organic ions		_	activation.			

Q.562 In a chemical reaction in which two			
maltose molecule enzymes are required			
(a) Small amounts.	(b) Huge amounts.		
(c) Enzymes are not required at all.			
(d) Enzymes are used but their role is not of			
Q.563 Which one of the following is pure prote	•		
(a) Amylase.	(b) Pepsin.		
(c) Lipases.	(d) Both 'a' and 'b'.		
Q.564 Enzyme molecule has a specific site in v			
active site. The site other than active site			
(a) Active site.	(b) Specific site.		
(c) Allosteric site.	(d) Non specific site.		
Q.565 Induced fit model of enzyme action was	•		
(a) Koshland.	(b) Fischer.		
(c) Thomas Cech.	(d) Sidney Altman.		
Q.566 What is apoenzyme?	(I) Non and in the A. Communication		
(a) Protein part of enzyme.	(b) Non protein part of enzyme.		
(c) Co factor.	(d) Co enzyme.		
Q.567 Inorganic non protein part of enzyme m			
(a) Protein part of enzyme.	(b) Non protein part of enzyme.		
(c) Co factor.	(d) Co enzyme.		
Q.568 What is coenzyme?	(h) Non protein part of anyuma		
(a) Protein part of enzyme.	(b) Non protein part of enzyme.		
(c) Non protein organic part of enzyme.	(d) Non protein inorganic part of enzyme.		
Q.569 Fisher proposed a theor (a) Lock and key theory.	y of enzyme activity?		
(c) Role of substrate in enzyme activity.	(b) Induced fit model.(d) Role of pH in enzyme activity.		
Q.570 The rate of enzymatic reaction is	on the substrate concentration?		
(a) Directly.	(b) Inversely.		
(c) Both of these	(d) above statement is wrong.		
Q.571 The activity of almost every enzyme in a			
(a) Feed-back inhibition	(b) Positive feedback		
(c) Negative feedback	(d) Feedback control		
Q.572 The pH at which enzyme perform its be			
(a) Minimal pH	(b) Optimal pH.		
(c) Defined pH.	(d) All of these.		
Q.573 If the amount of an enzyme is increased			
(a) No change.	(b) Double.		
(c) Three time.	(d) Depend upon the enzyme.		
Q.574 Chemical molecules which attached at a	. /		
known as?	mosteric site and innibit enzyme activity are		
(a) Inhibitors.	(b) Competitive inhibitors.		
(c) Non competitive inhibitors.	(d) Activators.		
Q.575 Which one of the following is true for co			
(a) They attach at active site.	(b) Compete with substrate molecules.		
(c) Their effects are reversible.	(d) All of these.		
Q.576 An mRNA codon for the amino acid lysi			
-	nt in the polypeptide, containing five amino		
acids, coded for by the following DNA to			
TTCGGTTTCTTATTC			
	(c) 3. (d) 4.		
Q.577 All are correct regarding DNA else?			
(a) One Complete turn of DNA is 3.4 x 10)-9m		
• /	up of deoxyribose and phosphoric acid part of		
nucleotide	T T T T T T T T T T T T T T T T T T T		
(c) Each pair of nucleotides is held togeth	er by two/three hydrogen bonds.		
(d) Both polypeptide strands remain separated by 2nm			

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BIOLOGICAL MOLECULES WORKSHEET BY SKN

O 578	78 The statement describe the base pairing in DNA is				
Q. 370	(a) Purine bases always pair with purine bases				
	(b) Purine bases can only pair with pyrimidine bases(c) Adenine cannot pair with thymine				
	- · ·	-	hatayaan nyrimidina		
0.570	·	ng can only takes place	e between pyrimidine		
Q.579	A temperature beyo	_	(1.) I	· · · · · · · · · · · · · · · · · · ·	
	(a) Can affect the shape of an enzyme (b) Lowers the energy of an enzyme				
0.700	(c) Makes cells less susceptible to disease. (d) Both a and c.				
Q.580	80 What is the advantage of DNA having two complementary strands				
	(a) Two chromatids	• •			
		ve replication is possib			
	•	on and replication occu	ırsimilterasly		
	(d) Bond between ph	1 0 1			
Q.581		as 28% of Adenine a	s base of a cell what i	s the % of Cytosine in	
	the DNA				
	(a) 18%		(b) 22%		
	(c) 28%		(d) 36%		
Q.582	_			aining N15 isotopes. It	
	contains 36% of A	denine in its DNA.	The same bacterium	was transferred to a	
	medium in which or	nly Nitrogen source i	s N14. What was the	percentage of guanine	
	in DNA?				
	(a) 14%		(b) 18%		
	(c) 28%		(d) 36%		
Q.583	A DNA analysed an	Q.583 A DNA analysed and calculated the relative amount of four nitrogenou			
_	result are shown in table				
			tive amount of four f	nti ogenous bases. The	
-	result are shown in	table			
	result are shown in	rine	Pyrin	nidine	
	Puradenins	rine Base 1	Pyrin Base 2	nidine Base 3	
	result are shown in	rine	Pyrin	nidine	
	Pure Adenins 28.2%	rine Base 1 21.5%	Pyrin Base 2	nidine Base 3	
	Pure Adenins 28.2% What are 1,2,3 base	rine Base 1 21.5% s?	Pyrin Base 2 27.8%	Base 3 22.5%	
	Pure Adenins 28.2% What are 1,2,3 base (a) Cytosine thymine	rine Base 1 21.5% s? guanine	Pyrin Base 2 27.8% (b) Cytosine Guanine	Base 3 22.5% e thymine	
	Pu Adenins 28.2% What are 1,2,3 base (a) Cytosine thymine (c) Guanine thymine	rine Base 1 21.5% s? guanine cytosine	Pyring Base 2 27.8% (b) Cytosine Guanine (d) thymine cytosine	Base 3 22.5% e thymine	
	Puradenins Adenins 28.2% What are 1,2,3 base (a) Cytosine thymine (c) Guanine thymine Following events occ	rine Base 1 21.5% s? guanine cytosine cur in the replication	Pyring Base 2 27.8% (b) Cytosine Guanine (d) thymine cytosine of DNA.	Base 3 22.5% e thymine	
	Pure Adenins 28.2% What are 1,2,3 base (a) Cytosine thymine (c) Guanine thymine Following events occii) Bonds between co	rine Base 1 21.5% s? guanine cytosine	Pyring Base 2 27.8% (b) Cytosine Guanine (d) thymine cytosine of DNA.	Base 3 22.5% e thymine	
	Pure Adenins 28.2% What are 1,2,3 base (a) Cytosine thymine (c) Guanine thymine Following events occi) Bonds between coii) Bonds	Base 1 21.5% s? guanine cytosine cur in the replication mplementary bases b	Pyring Base 2 27.8% (b) Cytosine Guanine (d) thymine cytosine of DNA.	Base 3 22.5% e thymine	
	Pure Adenins 28.2% What are 1,2,3 base (a) Cytosine thymine (c) Guanine thymine Following events occii) Bonds between coiii) Bonds iii) DNA molecule u	Base 1 21.5% s? guanine cytosine cur in the replication mplementary bases b	Pyring Base 2 27.8% (b) Cytosine Guanine (d) thymine cytosine of DNA.	Base 3 22.5% e thymine	
	Pure Adenins 28.2% What are 1,2,3 base (a) Cytosine thymine (c) Guanine thymine Following events occii) Bonds between coii) Bonds iii) DNA molecule u iv) Opposite strands	Base 1 21.5% s? guanine cytosine cur in the replication mplementary bases b	Pyring Base 2 27.8% (b) Cytosine Guanine (d) thymine cytosine of DNA.	Base 3 22.5% e thymine	
	Purademins 28.2% What are 1,2,3 base (a) Cytosine thymine (c) Guanine thymine Following events occi) Bonds between coii) Bonds iii) DNA molecule uiv) Opposite strands v) Sugar – phosphate	Base 1 21.5% s? guanine cytosine cur in the replication mplementary bases b ncoil s separate te bond form.	Pyring Base 2 27.8% (b) Cytosine Guanine (d) thymine cytosine of DNA. oreak	Base 3 22.5% ethymine guanine	
	Put Adenins 28.2% What are 1,2,3 base (a) Cytosine thymine (c) Guanine thymine Following events occii) Bonds between coii) Bonds iii) DNA molecule u iv) Opposite strands v) Sugar – phosphat vi) Free nucleotides	Base 1 21.5% s? guanine cytosine cur in the replication mplementary bases b ncoil s separate te bond form. align with compleme	Pyring Base 2 27.8% (b) Cytosine Guanine (d) thymine cytosine of DNA. oreak entary nucleotides on the contract of the contract of the cytosine of the cytos	Base 3 22.5% e thymine guanine each strand.	
	Adenins 28.2% What are 1,2,3 base (a) Cytosine thymine (c) Guanine thymine Following events occi) Bonds between coii) Bonds iii) DNA molecule u iv) Opposite strands v) Sugar – phosphat vi) Free nucleotides (a) i→iii →v→iv→ii	Base 1 21.5% s? guanine cytosine cur in the replication mplementary bases be ncoil s separate te bond form. align with compleme i vi	Pyring Base 2 27.8% (b) Cytosine Guanine (d) thymine cytosine of DNA. Poreak entary nucleotides on (b) iii → i → iv → vi → i	Base 3 22.5% e thymine guanine each strand. i→v	
Q.584	Adenins 28.2% What are 1,2,3 base (a) Cytosine thymine (c) Guanine thymine Following events occi) Bonds between co ii) Bonds iii) DNA molecule u iv) Opposite strands v) Sugar – phosphat vi) Free nucleotides (a) i—iii —v—iv—ii (c) iii—vi—ii—iv—v	Base 1 21.5% s? guanine cytosine cur in the replication emplementary bases be ncoil s separate te bond form. align with compleme ti vi vi vii	Pyring Base 2 27.8% (b) Cytosine Guanine (d) thymine cytosine of DNA. Poreak entary nucleotides on (b) iii ii ii vi vi vi vi (d) iv iii ii vi vi vi vi	Base 3 22.5% e thymine guanine each strand. i→v	
Q.584	Adenins 28.2% What are 1,2,3 base (a) Cytosine thymine (c) Guanine thymine Following events occi) Bonds between co ii) Bonds iii) DNA molecule u iv) Opposite strands v) Sugar – phosphat vi) Free nucleotides (a) i→iii →v→iv→ii (c) iii→vi→i→iv→v What is the effect of	Base 1 21.5% s? guanine cytosine cur in the replication mplementary bases b ncoil s separate te bond form. align with compleme ti—vi ti—ii f the enzymes deoxyri	Pyring Base 2 27.8% (b) Cytosine Guanine (d) thymine cytosine of DNA. The present of DNA. The present of the	Base 3 22.5% e thymine guanine each strand. i→v v→ii	
Q.584	Adenins 28.2% What are 1,2,3 base (a) Cytosine thymine (c) Guanine thymine Following events occi) Bonds between co ii) Bonds iii) DNA molecule u iv) Opposite strands v) Sugar – phosphat vi) Free nucleotides (a) i—iii —v—iv—ii (c) iii—vi—ii—iv—v What is the effect of (a) DNA broken at s	Base 1 21.5% s? guanine cytosine cur in the replication mplementary bases b ncoil s separate te bond form. align with compleme ti—vi —ii f the enzymes deoxyri pecific site	Pyring Base 2 27.8% (b) Cytosine Guanine (d) thymine cytosine of DNA. Preak Preak Pring (d) thymine cytosine (d) thymine cytosin	midine Base 3 22.5% ethymine guanine each strand. i→v y→ii oined together	
Q.584 Q.585	Adenins 28.2% What are 1,2,3 base (a) Cytosine thymine (c) Guanine thymine Following events occi) Bonds between coci) Bonds iii) DNA molecule usiv) Opposite strands v) Sugar – phosphat vi) Free nucleotides (a) i—iii —v—iv—ii (c) iii—vi—i—iv—v What is the effect of (a) DNA broken at s (c) DNA replication	Base 1 21.5% s? guanine cytosine cur in the replication mplementary bases b ncoil s separate te bond form. align with compleme ti—vi mi the enzymes deoxyri pecific site	Pyring Base 2 27.8% (b) Cytosine Guanine (d) thymine cytosine of DNA. Preak Interpretation of the content of the cytosine of DNA. Preak Interpretation of the cytosine (d) iii ii i	each strand. i→v v→ii oined together in	
Q.584 Q.585	Adenins 28.2% What are 1,2,3 base (a) Cytosine thymine (c) Guanine thymine Following events occii) Bonds between cocii) Bonds iii) DNA molecule u iv) Opposite strands v) Sugar – phosphat vi) Free nucleotides (a) i→iii →v→iv→ii (c) iii→vi→i→iv→v What is the effect of (a) DNA broken at s (c) DNA replication Pyrimidine bases ce	Base 1 21.5% s? guanine cytosine cur in the replication mplementary bases b ncoil s separate te bond form. align with compleme ti—vi —ii f the enzymes deoxyri pecific site ontain 4carbon atom	Pyring Base 2 27.8% (b) Cytosine Guanine (d) thymine cytosine of DNA. Preak Interp nucleotides on (b) iii i i vi vi vi i i (d) iv iii i i vi vi vi i i (d) iv iii i vi i vi vi ibonuclease? (b) DNA fragments j (d) DNA transcriptions and purine bases	midine Base 3 22.5% ethymine guanine each strand. i→v y→ii oined together	
Q.584 Q.585	Adenins 28.2% What are 1,2,3 base (a) Cytosine thymine (c) Guanine thymine Following events occii) Bonds between cocii) Bonds iii) DNA molecule u iv) Opposite strands v) Sugar – phosphat vi) Free nucleotides (a) i→iii →v→iv→ii (c) iii→vi→i→iv→v What is the effect of (a) DNA broken at s (c) DNA replication Pyrimidine bases cocarbon atoms are the	Base 1 21.5% s? guanine cytosine cur in the replication mplementary bases b ncoil s separate te bond form. align with compleme ti—vi mi the enzymes deoxyri pecific site	Pyring Base 2 27.8% (b) Cytosine Guanine (d) thymine cytosine of DNA. Poreak Interpretation of the content of the cytosine of DNA. Poreak Interpretation of the cytosine	each strand. i→v v→ii oined together in	
Q.584 Q.585	Adenins 28.2% What are 1,2,3 base (a) Cytosine thymine (c) Guanine thymine Following events occii) Bonds between cocii) Bonds iii) DNA molecule u iv) Opposite strands v) Sugar – phosphat vi) Free nucleotides (a) i→iii →v→iv→ii (c) iii→vi→i→iv→v What is the effect of (a) DNA broken at s (c) DNA replication Pyrimidine bases ce	Base 1 21.5% s? guanine cytosine cur in the replication mplementary bases be ncoil s separate te bond form. align with compleme ti—vi —ii f the enzymes deoxyri pecific site ontain 4carbon atom	Pyring Base 2 27.8% (b) Cytosine Guanine (d) thymine cytosine of DNA. Preak Interp nucleotides on (b) iii i i vi vi vi i i (d) iv iii i i vi vi vi i i (d) iv iii i vi i vi vi ibonuclease? (b) DNA fragments j (d) DNA transcriptions and purine bases	each strand. i→v v→ii oined together in	

Q.587 Which of the following statements about the structure of DNA is incorrect.

- (a) One complete turn require 3.4 nm and 10 base pairs
- (b) Backbone of each strand runs in opposite directions relative to each other.
- (c) Each pair of nucleotides in held together by three hydrogen bonds.
- (d) The width of the DNA strand is a constant 2nm.

Q.588	The nitrogenous bases present in RNA are the same as those present in DNA except that				
	(a) Adenine re	places Cytosi	ne (b) A	denine replaces thymine	
	(c) Uracil repl	-	, ,	racil replaces thymine	
Q.589	A fragment of	f DNA			
[_	_			
	-A	-Т			
	-G	-C			
	-T	-A			
	-C	-G			
		drogen bonds	s are involved in hold	ling these 2 strands of DNA together.	
	(a) 10		(b) 8		
0.500	(c) 6		(d) 4	100/ 11 200/	
Q.590				hat it contains 18% Adenine, 32%	
	Genetic mate		d 18% Thymine.		
	II. Genetic mate				
			e double stranded		
			made about this org	anism	
	(a) I only		(b) I		
	(c) II and III			II and III	
Q.591	What is the fu	nction of son	ne enzyme in a seed d	uring germination	
	(a) To break d	own insoluble	food into soluble sub	stances	
	(b) To increas	e the rate of pl	notosynthesis		
	(c) To increase	e water absorp	tion	,	
	(d) To make s				
Q.592			lowing sequence of A	Amino acid	
	$\mathbf{A} \rightarrow \mathbf{B} \rightarrow \mathbf{C} \rightarrow \mathbf{D} \rightarrow \mathbf{B} \rightarrow \mathbf{E} \rightarrow \mathbf{C}$				
	mRNA codon				
7	amino acid A amino acid D			o acid B- GAU, amino acid C-CAC o acid E AAG	
				ous base at DNA to synthesis above	
	polypeptide?	lonowing se	quences of introgen	ous base at DIVA to synthesis above	
	a) ACACTTG	TGATGCTAT	TCGTG b) AC	CACUAGUGAUGCUAUUCGUG.	
	c) ACACTAG			CACTAGTGATCCTATTCGTG.	
Q.593	Synthetic mR				
	•	• •	-	llanine-Phenylalanine-Phenylalanine	
	AAA AAAAA	$AAAA \rightarrow Ly$	sine <mark>- Lysine -Lysine</mark>	e - Lysine	
	UUU AAA UU	$JU AAA \rightarrow P$	hen <mark>y</mark> lalanine - Lysin	e -Phenylalanine – Lysine	
		_	eny <mark>l</mark> alanine and lysii	ie.	
	Phenylalanii	ne	Lysin	e	
	a) AAA		TTT		
	b) AAA		UUU		
	c) GGG		CCC		
O 504	d) TTT	o of puolooti	GGG do basas in DNA is	FACC than the sequence of bases in	
Q.594	tRNA will be?		ue bases in DNA is	TAGC, then the sequence of bases in	
	(a) ATGC		(b) T.	ΔGC	
	(c) UTGC		(d) U		
0.595	\	the stages in	the cellular synthesis		
(.270	O	0	m nucleus to cytoplas	•	
	III. Transcrip		V. Polypeptide form	•	

BIOLOGICAL MOLECULES WORKSHEET BY SKN

(c) $III \rightarrow I \rightarrow V \rightarrow II \rightarrow IV$

(a) $I \rightarrow III \rightarrow II \rightarrow V \rightarrow IV$

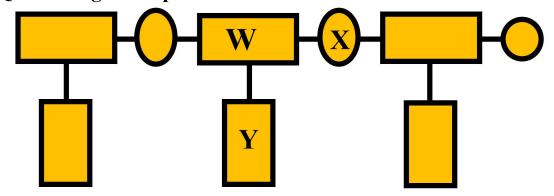
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(b) $I \rightarrow V \rightarrow III \rightarrow IV \rightarrow II$

(D) $III \rightarrow IV \rightarrow I \rightarrow II \rightarrow V$

Q.596	96 Codes at DNA for amino acids are						
	CGG – Alanine,		TTT-	Lysine,	GCG -arginine,		
	AAA Phenylalanine,		CCA-	Glycine,	CAA- valine.		
	A polypeptide chain –Arginine – Glyc			Glycine- Lysine	ne- Lysine- Valine – alanine		
		CGC	GUU	AAA	GUU	GCC	
	W	hich triplet co	ntain error				I
) 1st		(b) 2nd	1		
	` ′	3rd		(d) 4th			
0.597	` /		ve bases in the D			ode for each a	mino acid
Q.C.			olecule What is				
		eur.	orecare villar is		ber of unit	rent triplets t	iiat coura
		16		(b) 24			
	(c)			(d) 64			
0.598	()		for glutamic aci		TT the code	e for Valine i	s CAA or
C			e cell haemoglok				
			gle base pair subs			_	
		ected mutant	-				
		CUU		(b) GA	A		
	\ /	GAG		(d) GU	JA/	,	
Q.599	\ /		tein containing 51			le 17 of the 20) different
		_	mmonly occurrin				
			of tRNA molecule	_			
	(a)			(b) 17			
	(c)			(d) 51			
O.600	` ′		e is composed of		chains, one	e consisting of	20 amino
			consisting 31. W			_	
	DNA required to code this molecule.						
		20		(b) 51			
		102		(d) 153	3		
Q.601			urn of double he			rs, of bases w	ith 3.4nm
		-	length of the DNA		_		
7	7) 153nm	0	(b) 300			
((c)	120nm		(d) 151	nm		
Q.602	In	a genetic eng	gineer <mark>i</mark> ng experim	ent a piece of l	DNA contair	ning 6000 nucl	leotides in
	tra	nscribed and	translated into p	rotein, How ma	ny amino ac	ids are requir	ed.
	(a)	1000		(b) 200	00	_	
	(c)	3000		(d) 450	00		
Q.603	As	synthetic mR	NA molecule is m	ade by using 2	types of nucl	leotides only i.	e Adenine
	an	d Cytosine ho	w many differe <mark>n</mark> t	codon could it	contain.		
	(a)	2		(b) 4			
	(c)	8		(d) 16			
Q.604	An	mRNA COI	DON for amino a	cid alanine is (GCC. How i	many alanine	molecules
	are	e present in	polypeptide, cont	taining eight ai	nino acids,	coded by the	following
	DN	A template?					
	T	CG GCC TAC	C CGG GCC CA	T GCC AAT			
	(a)	0 0		(b) 1			
	(c)	2		(d) 3			
Q.605	` /		g ⁺²) is an inorgani	ic activator for t	the enzyme		
) Mangnase	_		osphatase		
	(c)	Carbonic anh	ydrase	(d) Lip	_		
				_			

Q.606 Diagram represent anti codon



What do w, x, y respect

	W	X	Y
A.	$C_5H_{10}O_4$	Nitrogenous base	Base Phosphate
В.	$C_5H_{10}O_4$	Phosphate	Nitrogenous base
C.	$C_5H_{10}O_5$	Nitrogenous base	Phosphate
D.	$C_5H_{10}O_5$	Phosphate	Nitrogenous base

- Q.607 A polypeptide chain of ten amino acid contains 4 different kinds of amino acid what is the theoretical minimum number of tRNA molecules are required to translate the mRNA of this protein.
 - (a) 2

(b) 4

(c) 8

- (d) 12
- Q.608 DNA molecules carries information in
 - (a) Its amino acid sequence
 - (b) Its sugars and phosphates in back bone
 - (c) Order of nucleotides in the molecule
 - (d) Total number of nucleotides it contain
- Q.609 Chromonemata exhibits deeper staining regions along their lengths, giving the threads the appearance of strings of beads, these intensely staining areas are the
 - (a) Centromere

(b) Chromonema

(c) Chromosomes

- (d) Chromomeres
- Q.610 The length of chromosome from centromeres to its terminal end is called
 - (a) Chromatids

(b) Arm

(c) Centrosome

- (d) Chromomeres
- Q.611 Arrange the steps of catalytic action of an enzyme in order and choose the right option:
 - i. The active site of enzyme is in close proximity of the substrate and breaks the chemical bonds of the substrate.
 - ii. The binding of substrate induces the enzyme to alter its shape fitting more tightly around the substrate.
 - iii. The enzyme releases the products of the reaction and the enzyme is free to bind to another substrate
 - iv. The substrate binds to the active site of the enzyme fitting into the active site
 - (a) $IV \rightarrow III \rightarrow II \rightarrow I$

(b) $III \rightarrow II \rightarrow IV$

(c) $IV \rightarrow II \rightarrow I \rightarrow III$

- $(d) \text{ II} \rightarrow \text{IV} \rightarrow \text{III}$
- (e) $II \rightarrow I \rightarrow III \rightarrow IV$

- Q.612 What is a ribozyme?
 - (a) An enzyme that uses RNA as a substrate
 - (b) An RNA with enzymatic activity
 - (c) An enzyme that catalyzes the association between the large and small ribosomal subunits
 - (d) An enzyme that synthesizes RNA as part of the transcription process
 - (e) An enzyme that synthesizes RNA primers during DNA replication

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252

302 303

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