# BIO202 - Biochemistry-I
# GRANDQUIZ MEGA FILE
# LION GROUP OF ZOOLOGISTS FOR 2ND
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**1. the most frequently used systematic nomenclature name the fatty acid after the hydrocarbon with -oic being substituted for the final .....**

a) e

b) d

c)a

d)b

**2) the amide group of--------serves as site of attachment for oligosaccharide chain in glycoprotein**

a) serine

b) threonine

c)asparagine

d) all of these

**3) the ion found in the haem group is what--------**

a) $Mg^{+}$

b) $O^{-2}$

c)$Fe^{+2}$

d)$Fe^{+3}$

**4) hydrogenation of fatty acid leads to the hardening of natural oil and formation of margarine because**

**a) trans double bond are converted to cis double bonds**

**b**) cis double bond is converted to trans double bonds

c)double bond are converted to single bond

d) single bond is converted to double bond

**5)fatty acid are classified on the basis of hydrocarbon chain length include**

**a**) medium chain fatty acid (6 -12c)

b) short chain fatty acid (2-4c)

c) long chain fatty acid (14-18 c)

d)all of the above

**6) which of the following form of lipid are also referred as neutral lipid?**

a) triacylglycerol

b) phospholipid

c) steroid

d) wax

7**) the following salt is water insoluble**

a) K

b) Na

c) Mg

d) Zn

**8) which statement about amino acid at physiological ph. is true?**

a) the carboxyl group is dissociated and amino group is protonated

b) only the carboxyl group is dissociated

c) amino group is protonated

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d) there is no charge on either of the amino group or carboxyl group.

**9)the sigmoidal binding curve of hemoglobin for oxygen is possible due to …….structure of hemoglobin.**

a) Multisubunit
b) Single subunit

**10)the formation of furfural product and their condensation with organic phenol to give characteristic colored compound forms the bases of biochemical tests used for the detection of carbohydrate an example of such test is**

a) Molisch 's test

b) Benedict's test

c)Ninhydrin test

d) Grease spot test

**11) One degradation product of hemoglobin is the brown bile pigment bilirubin .this step occur in**

a) bile

b) liver

c) kidney

d) heart

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12) the quaternary structure of hemoglobin is best described as

a) dimer of two myoglobin dimers

b) tetramer of identical subunit

c) tetramer of four different subunit

d) tetramer of two different subunit

**13) degree of saturation ( Y)(%) of oxygen binding sites on all myoglobin or hemoglobin molecule can be any value between……..**

a) 0 and 1

b)-1 and +1

c) 0 and 100

d) none of the above

**14)immunoglobulin are ……. Protein and have …… and ……. Components.**

a) catalytic, variable, constant

b) protective, variable, constant

c) protective, non-variable, constant

d) Enzymatic, variable, constant

**15) the oxygen binding diet in hemoglobin and myoglobin?**

a) heme group

b) globin group

c) ca +

d) Mg+

**16) once a heme group is oxidized, what molecule is produce?**

a) Methemoglobin

b) hemoglobin

c) myoglobin

d) hemoglobin c

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**17) ……. Is an example of contractile protein.**

a) myosin

b) amylase

c) hemoglobin

c) Fibrinogen

**18) The R group is hydrogen atom in**

a) Lysine
b) Alanine
c) Glycine
d) Proline

**19) the three-dimensional arrangement of two or more polypeptide chain is called as**

a) primary structure

b) secondary structure

c)tertiary structure

d) quaternary structure

**20) what are the main things responsible for causing the Bohr shift?**

a) increase carbon dioxide pressure

b) increase oxygen requirement

c)increase h+ ion

d) carbon mono oxide high affinity for hemoglobin

**21) which type of membrane lipid contain an acidic oligosaccharide ?**

**a) globosid**

b) phosphatidylinositol

c) cerebroside

d) ganglioside

**22) the of unsaturated fatty acid with double bond ends in**

a) enoic

b) anoic

c) dnoic

d) none of the above

**23) the carbon of the terminal methyl group is called the ….. regardless of the chain length**

a) alpha

b) beta

c) gamma

d) none

**24) Hemoglobin, the red pigment in blood, consist of a protein component and the iron complex of derivative**

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a) porphyrin

b) iron

c) protein

d) benzene ring

**25) oxyhemoglobin dissociation curve Bohr effect decrease affinity of the hemoglobin for…… gas caused by an increase of carbon dioxide ph. etc.**

a) oxygen

b) carbon dioxide

c) ozone

d) nitrogen

**26) the process by which oxygen enters the blood from the alveoli is**

a) facilitated diffusion

b) diffusion

c) active transport

d) none

**27) the pk2 value for glycine is**

a) 2.34

b) 5.97

c) 9.60

d) 7.65

**28) current evidence suggests that diet rich in omega 3 fatty acid are beneficial particularly for**

a) cardiovascular disease

b) Alzheimer disease

c)arthritis

d)all of the given

**29) during the tense stage of hemoglobin, the binding sites are…….**

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a) hindered

b) opened

c) closed

d) replaced

**30) fatty acid produces alkyl alcohol by……. of carboxylic group**

a) esterification

b) oxidation

c) reduction

d)methylation

**31) the following salt is water soluble**

a) Ca

b) Mg

c)Zn

d) K

**32) the partial pressure of oxygen needed to achieve half saturation of the binding sites is called……**

a) p50

b) p60

c)p70

d) none

**33) the number of dissociated hydrogens in histidine is ….**

a) zero

b) one

c) two

d) three

**34) the example of natural porphyrins includes…….**

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a) cytochrome c

b) hemoglobin

c)myoglobin

d) all option are correct

**35) which would be a property of all the major types of lipid in this cell membrane**

a) they would be joined to each other through covalent bond

b) they would be saponifiable in base and hydrolyzed in acid

c)they would have polar heads and non-polar tails

d) they would be composed of five carbon unit

**36) protein can exist in the form of multi=subunits. An advantage of multi subunit structure is that the different subunit can have different activities and cooperate in a common function. this is best understood by the structure of the enzyme……. which exist as a multi protein complex**

a) hemoglobin

b) ribozyme

c)pyruvate dehydrogenase

d)Ig A

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**37) what is the name of molecules formed when oxygen bind to hemoglobin**

a) oxyhemoglobin

b) carbaminohemoglobin

c) ox globin

d) oxygen hemoglobin

**38) all of the following are involved in stabilizing the three-dimensional structure of protein expect**

a) glycosidic bond

b) hydrophobic interaction

c) disulphide bridge

d) hydrogen bonds

**39) which of the following is found in brain tissue?**

a) D-alanine and D -glutamate

b) free D-serine and D- aspartate

c)) free D-serine and D- alanine

d) free D-serine and D- glutamate

**40)the proximal histidine F8 of myoglobin binds directly to the ….. of the heme group.**

a) iron

b) magnesium

c) zinc

d) calcium

**41)the pka value of acetic acid is……**

a) 3.76
b) 4.76
c) 5.76
d) 7.66

**42) all kind of lipid are ……. In water.**

a) miscible

b) soluble

c) insoluble

d)all of the given

**43) the…… bond formed by covalently joining of two amino acids through amide linkage.**

a) amide

b) peptide

c) sulphide

d)carboxyl

**44) the second degradation product of hemoglobin is green pigment biliverdin, the result of breakdown by oxidation occurs in….**

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.a) liver

b) heart

c) kidney

d) spleen

**45) the ion found in haem group is what…….**

a) Mg+2

b) O2-

C) Fe +2

d) Fe +3

**46) Alpha helices are the most common secondary structure found in protein, nearly all ….. protein contain alpha helices in their membrane spanning domain**

a) trans molecules

b) protective

c) transport

d) globular

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**47) which of the following statement about erythrocytes is correct**

a) they lack nucleus

b) the clot bloods

c) they fight infection

d) they are produced in spleen

**48)margarines are vegetable oil treated with partial hydrogenation to form a semi solid…..**

a) butter

b) oil

c) fat

d) protein

**49) the net effect of affinity of hemoglobin for the last oxygen bound is approximately …… times greater than its affinity for the first oxygen bound**

a) 300

b) 302

c) 301

d) 356

**50)some protein contain additional amino acid that arise by modification of amino acid already present in the peptide i.e. after the protein has been synthesized . an example of amino acid is**

a) Lysine
b) 5 -hydroxylysine
c) Peptidyl proline
d) Glutamic acid

**51) all of the following are true for amino acid except**

a) the genetic code specified and code for both standard and non-standard amino acid

b) the side chain of amino acid influences their solubility in water

c) the carbon atom present between the amino group and carboxyl group in the amino acid is known as a carbon.

d) in the formation of protein, amino acid are joined together by linkage known as peptide bond.

**52) in myoglobin and hemoglobin, heme is covalently linked with…. Amino acid ( eight residue of f helix.**

a) histidine f8

b) alanine f8

c) both

d) none of them

**53) identify the amino acid containing non polar ,aliphatic R groups.**

a) phenylalanine, tyrosine and tryptophan

b) glycine, alanine, leucine

c) lysine, arginine, histidine

d) serine. theorine, cysteine

**54) the octet rules refer to the tendency of atom to prefer to have electron in the valence shell.**

a) 8

b) 9

c) 10

d) 11

**55) what are the component of triglyceride molecules?**

a) one glycerol and three fatty acids

b) one glycerol and two fatty acids

c) one glycerol and one cholesterol

d) one glycerol and two cholesterol

**56)unesterified fatty acid are transported in the circulation in association with……**

a) albumin

b) gelatin

c) casein

d) none of the above

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**57) the …… change has no effect on the function of myoglobin.**

a) conformational

b) amino acid

**58) fatty acid occurs in the body mainly as …….in natural fat and oil**

a) protein

b) esters

c)oils

d)fatty acid

**59) fats are the …… of fatty acid and glycerol**

a) esters

b) ethers

c) isomer

d) tautomer

**60) during conformational changes each successive addition of oxygen shift the equilibrium further toward the ..... state thus, the addition of oxygen in the lungs**

a) relaxed state

b) tense state

c) relaxed or tense state

d) no change

**61) the family of poly unsaturated fatty acid with double bond between the third and fourth of carbon from the methyl end of the chain are of special importance in human.....**

a) mental health

b) nutrition

**62) approximately how many hemoglobin are there in each red blood cells?**

a) 30 million

b) 300 million

c) 50 million

d) 5 million

**63) hemoglobin must bind with oxygen efficiently in the lungs , where the po2 is about.....mmHg and release oxygen in the tissue . where po2is about .... mmHg**

a)100 and 35 to 40

b) 50 and 35 to 40

c) 60 and 35 to 40

d) 40 and 35 to 40

**64) fetal hemoglobin shifts the oxygen saturation curve in what direction?**

a) right and down

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b) left and down

**65) what happen to the red blood cells if the heme group is removed from hemoglobin**

a) red blood cells would not be able to bind oxygen

b) red blood cells would not be able to reproduce

c) white blood cells would not be able to reproduce

d) blood clots formation would be in habited

**66) in case of soap micelle, the ..... hydrocarbon chains clusterin the inside and carboxyl group lie on the surface**

a) non polar. polar

b) polar. non polar

**67) which of the following fatty acid would have the lowest critical micelle concentration**

a) C4-COOH

b) C5-COOH

c) C6-COOH

d)C8-COOH

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**68) The melting point of fatty acid depends upon chain length and .....**

a) the shape of fatty acid

b) degree of unsaturation

c) the position of double bond

d) charge on the carbon

**69) the process which convert unsaturated fatty acid to saturated fatty acid .....**

a) hydrogenation

b) glycolysis

c)proteolysis

d)liquefaction

**70) myoglobin is composed of a single peptide chain which has.....**

a) one O2 binding site

b) two O2 binding site

c) three O2 binding site

d) four O2 binding site

**71) the carbon of the terminal methyl group is called the …… regardless of the chain length.**

a) alpha

b) beta

c) gamma

d) none

**72) which is a characteristic of all the fatty acid components in this lipid?**

a) they all are hydrophobic because they contain oxygen

b) they all contain unbranched carbon chain

c) they all contain unconjugated cis double bonds

d) they are all joined to glycerol through an ester bond

**73) once a heme group is oxidized, which molecule is produced**

a) methemoglobin

b) hemoglobin

c) myoglobin

d)hemoglobin c

**74) the two ends of the poly peptide chain are knowns as the…… and …… terminus**

**a**) C, N

b) R, S

c) a, b

d) D, L

**75) which characteristic does this lipid share with wax**

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a) both contain one or more carboxyl group

b) both contain polar heads

c) both contain three fatty acid

d) both contain one or more ester bonds

**75) motifs are also known as super secondary structure . an example of motif found in protein is the……**

a) b barrel

b) b sheet

c) b turns

d) a helix

**76) the hydrolysis of starch by the enzyme amylase produces maltose. in human body maltose is further hydrolyzed by the enzyme maltase to produce…….**

a) galactose

b) glucose

c) maltotrisoe

d) mannose

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**77)all amino acid except…… have a chiral carbon and have two possible isomers**

a) lysine

b) glycine

c) glutamic acid

d)tryptophan

**78) protein present in cell membrane may function as ……. Or transporters**

a) receptors

b) hormone

c) immunoglobulins

d)storage protein

**79) aliphatic polar amino acids are ….. in nature**

a) hydrophilic

b) hydrophobic

c) non-reactive

d)aromatic ring tryptophan

**80) the name of saturated fatty acid end in one of the following suffixes.**

a)-enoic

b) -ol

c)-dehyde

d) -anoic

**81) the strenuous exercise lowers the p02 of muscle tissue to about……. mmHg hence permits continued muscular activity**

a) 5

b) 4

c) 3

d) 2

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**82) the surface of myoglobin is …… important for interacting with polar aqueous environment of cytosol.**

a) polar

b) non polar

c) aqueous

d) hard

**83) cholesterol is essential for normal membrane function s because it**

a) cannot made by higher organism e.g. mammals

b) spans the thickness of the bilayer

c) keep membrane fluid

d) catalyzes lipid flip -flop in the bilayer

**84) fatty acid are the carboxylic acid in which length of ….. chain range from 4 to 36 carbons.**

a) hydrocarbon

b) poly carbon

c) monosaccharide

d) disaccharide

**85) the position of any ……. in fatty acid are specified relative to the carboxyl carbon by superscript numbers following delta**

a) Carbon atom

b) Hydrogen atom

c) Double bond

d) R group

**86)myoglobin can bind to four oxygen molecules because it contain 4 heme group.**

a) true

b) false

**87) folic acid aids**

a) in maturation of red blood cells and destruction of RNA.

b) in maturation of red blood cells and also required for RNA synthesis

c) in maturation of red blood cells and destruction of DNA

d) in maturation of red blood cells and also required for DNA synthesis.

**88) the net charge on aniline in acidic solution (ph. less than two is) ….**

a) negative

b) positive

c) neutral

d) first negative and then become neutral

**89) the melting properties of fatty acid and lipid bilayer is due primarily to…….**

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a) hydrogen bond

b) Vander Waals forces

c) electrostatic interactions

d) covalent bonds

**90) micelles of fatty acids in water are organized such that the …. face the solvent and the ……. Are directed toward the interior.**

a) hydrophobic heads: hydrophiid tails

b) hydrocarbon chains: carboxylic acid groups

c) hydrophobic tails: hydrophiid heads

d) carboxylic acid groups: hydrocarbon chains

**91) which of the following molecules is typical fatty acids?**

a)a molecules that have even no of carbon atoms in a branched chain

b) a polar hydrocarbon with that react with Noah to form a salt

c) an amphipathic dicarboxylic acid with un conjugated double bonds

d) a molecule that has one cis double bond in a linear carbon chain

**92) which of the following protect our heart and kidney from injury?**

a) fat

b) muscles

c) skin

d) lubricant

**93) upon reaction with strong acid pentose produce …… while hexoses produce….**

a) furfural, hydroxy methyl furfural

b) hydroxy methyl furfural, furfural

c) aldehyde, ketone

d) deoxy sugars , amino sugars

**94) histidine is generally considered to be a …… amino acid.**

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a) polar

b) non polar

**95) eicosanoids are derived from either…… fatty acid.**

a) omega -3

b) omega -6

c) none

d)omega -3 or omega -6



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96) phospholipid frequen




tly have nitrogen containing bases and other substituent are

a) glycerophospholipid the is glycerol

b) sphingophospholipid the alcohol is sphingosine

c) none

d) both

97) many proteins have multiple poly peptide subunit. a multisubunit protein is also referred as a multimer. The repeating structural unit in such a multimer protein is called a …….

a) protomer

b) amin o acid

c) monosaccharide

d) motif

**98)which of the following is a characteristic of both waxes and terpenes?**

a) both can contain oxygen

b) both can contain amino acid

c) both can contain a fatty acid

d) both can be non saponifiable

**99) in the lung the ph. of the blood is …. Because carbon dioxide being exhaled.**

a) neutral

b) higher

c) lower

d) zero

**100) a molecule bound reversibly by a protein is called a….**

a) ligand

b) lysosome

c) sub unit

d) chelator

**101) hemoglobin consists of pairs of different protein, designed as alpha and beta chain**

a) two

b) three

c) four

d)five

**102) which is a characteristic of the lipid in a biological membrane**

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a) the fatty acid of lipid molecules is found in the interior of the membrane

b) specific glycerophospholipid are distributed equally on the two-membrane surface

c) lipid molecules are held in fixed position by non covalent bonds with protein

d) the fluidity of membrane decreases with lower levels of saturated fatty acid

**103) which of the following is imino acid**

a) proline

b) lysine

c) alanine

d) histidine

**104)immunoglobulin are …. in nature**

A) protein

b) carbohydrate

c) lipid

d) none

**105) long chain omega 3 fatty acid such as alpha -linolenic acid and their derivative have …. Effect.**

a) inflammatory

b) inhibitory

c) antagonistic

d) anti -inflammatory

**106) based on its structural similarity to other lipid, lipid most likely function as ….**

a) vitamin required for vision

b) a membrane component

c) an energy storage molecule

d) a sex hormone

**107) ….. are major structural elements of biological membrane.**

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a) protein

b) phospholipid

c) phospholipid and sterols

d) none

**108) lauric acid the saturated fatty acid having ……. carbon chains**

a) 12

b) 13

c) 14

d) 15

**109) ……. Structure of protein refers to particularly stable arrangement of amino acid residue giving rise to recurring structural patterns.**

a) primary

b) secondary

c) tertiary

d) quaternary

**110) the iron atom of the heme has …….. bond**

a) six

b) seven

c) eight

d) nine

**111) esters of fatty acid with higher molecular weight monohydric alcohol having oh group**

a) protein

b) wax

c) steroid

d)lipid

**112)a protein is called a …… protein if its amino acid composition and molecular conformation are unchanged from that found in natural states**

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a) native

b) natural

c) folded

d) functional

**113) a buffer is a solution that resist change in ph. following the addition of an acid or base. Among amino acid , only ……. Has r group pka = 6.0 providing significant buffering near neutral ph. found in the intracellular and extracellular of most animal**

a) histidine

b) glycine

c) glucose

d) aspartic acid

**114) the 16-carbon saturated fatty acid named as**

a) propanoic acid

b) butyric acid

c)palmitic acid

d)oleic acid

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**115)the enzyme that catalyzed the interchange, or shuffling of disulfide bond until the bonds of the native conformation are formed is called**

a) protein disulphide isomerase

b) sulfide dehydrogenase

c) protease

d)protein lyase

**116)how many amino acids in the beta chains of hemoglobin**

a) 146

b)141

c)140

d)435

**117) sickle cells are very fragile and rupture easily. this results in……**

a) anemia

b) blood cancer

c) hemophilia

d) aplastic anemia

**118)……. That is a fatty acid with one double bond and is abbreviated as 18:1**

a)palmitic acid

b) glacial acetic acid

c) tartaric acid

d)oleic acid

**119) disulphide bonds are formed between two molecules of the amino acid cysteine. The reaction involve**

a) oxidation of sulfhydryl group

b) reduction of sulfhydryl group

c) methylation of carbon

d)phosphorylation of a carbon

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**120) certain protein that are denatured by heat, extreme ph., or denaturing agent Can regain their native structure and biological activity if returned to a condition in which the native conformation is stable.an example is the enzyme ribonucleases . a which is denatured in a…….. solution in the presence of reducing agent.**

a) concentrated urea

b) buffer

c)normal saline

d) serum

**121) the native conformation of the protein is dependent on its folding pattern are dictated by**

a) thermodynamics

b) hydraulics

c) conformation of peptide bond

d)function of protein

**122) the hydrolysis of starch by an enzyme amylase produces maltose. In human maltose is further hydrolyzed by the enzyme maltase to produce……..**

a) galactose

b) glucose

c) malt trioses

d) mannose

**123) which type of membrane lipid contain an acidic oligosaccharide**

a) globoids

b) phosphatidylinositol

c) cerebroside

d) ganglioside

**124) which of the following is not the component of phospholipid?**

a) phosphate

b) protein

c) glycerol

d) alcohol

**125) how many amino acid are in the alpha chain of hemoglobin**

a) 141

b) 146

c) 543

d) 144

**126) one degradation product of hemoglobin is the brown bile pigment called as……..**

a) bilirubin

b) biliverdin

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**127) which statement about amino acids at physiological ph. is true**

a) the carboxyl group is dissociated and amino group is protonated

b) only the carboxyl group is dissociated

c) only amino group is protonated

d) there is no change on either the carboxyl group or the amino group

**128) the carbon atom in the fatty acid is numbered , beginning with the carboxyl carbon as**

a) c1

b) c2

c) c3

d) c4

**129) a molecule bound reversibly by protein is called a….**

a) ligand

b) lysosome

c) subunit

d) chelator

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**130) oxy hemoglobin dissociation curve Bohr effect decrease affinity of hemoglobin for …. Gas caused by an increase of carbon dioxide ph. etc.**

a)oxygen

b) carbon dioxide

c) ozone

d) nitrogen

**131)protein folding is governed by thermodynamics; the folding process involves a decrease in randomness and thus a decrease in….**

a) entropy

b) flexibility

c)stability

d)interactions formed

**132) the characteristic ph. at which the net electric charge on amino acid is zero is called…….**

a) cationic ph.

b) isoelectric point

c)ampholytic point

d)anionic point

**133) eicosanoids are derived from either……. Fatty acid.**

a)0mega 3

b) omega 6

c) none

d) omega 3 or omega 6

**134)electrostatic interaction help stabilize the three dimensional tertiary structure of protein these interaction are formed as a result of ionic bonds formed between the positively charge amino acids .the positive charge are usually present on ……. Amino acid**

a)basic

b) acidic

c) neutral

d) all

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**135) a loss of three dimensional structure sufficient to cause loss of function of protein is called…..**

a) denaturation

b) catalysis

c) reactivations

d) misfolding

**136)beta sheets are a type of regular secondary structure that maximize hydrogen bonding between the peptide backbone the sheet is described as……. if the polypeptide strands run in the same direction (as define by their amino and carboxy terminals**

a) anti parallel

b) parallel

c) aligned

d)helical

**137) apart from 20 standard amino acid, some other amino acid may also be synthesized and become a part of the protein an example of such amino acid is……. Which is naturally occuring .generally coded amino acid used by some methanogenic archaea**

a) pyrrolysine

b) phenylalanine

c) aspartic acid

d)sialic acid

**138) oxygen stored in red muscle myoglobin is released during O2 deprivation (e.g., severe exercise) to be used in muscle mitochondria for…….**

a) aerobic synthesis of ATP molecules

b) An aerobic synthesis of ATP molecules

c) aerobic synthesis of more O2

d)An aerobic synthesis of more O2

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**139) the form of an amino acid that has both positive and negative charge is called**

a) zwitterion

b) non -ionic

c) cation

d) anion

**140) the surface of myoglobin is polar, important for interacting with……. Aqueous environment of cytosol**

a) polar

b) non polar

c)organic

d)inorganic

**141) cluster of twisted strands of beta sheet form the core of many …… protein**

a) fibrous

b) globular

c)collagenous

d) structural

**142) the 18 carbons with one double bond named as**

a) palmitic acid

b) propanoic acid

c) oleic acid

d) butyric acid

**143) fats are abundantly found in**

a) reproductive tissue

b) vegetable tissue

**143) cis -9- hexadecenoic ACID, THAT IS THE FATTY ACID WITH NUTRIONAL significance is commonly known as….. acid**

a) oleic

b) palmitic

c)palmitoleic

d) none

**144) the quaternary structure of human hemoglobin is best described as**

a) dimer of two myoglobin

**b) tetramer of identical subunit**

c) tetramer of four different subunit

d) tetramer of two different subunit

**145) fatty acids are found in the unesterified form as……. A transport form in the plasma**

a) oils

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b) free fatty acid

c)esters

d)bounded fatty acid

**146)the …… gas is used for aerobic synthesis of ATP in muscle mitochondria during the case of severe exercise**

a) oxygen

b) carbon dioxide

c) ozone

d) none

**147) D-amino acid are also nonstandard amino acid that occur naturally . which of the following D-amino acid is found in the cell wall of gram-positive bacteria?**

a) D-alanine

b) 5 hydroxy lysine

c) D-serine

d) cysteine

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**148) what is the solubility of lipid in water**

a) partially soluble

b) soluble

c) insoluble

d)partially insoluble

**149) the cervices (pocket) created by……. amino acid in the interior of myoglobin creates a binding pocket for heme**

a) Polar

b) non polar

c)Basic

d) acidic

**150) all of the following are true for lactose except**

a) it is reducing sugar

b) it is found abundantly in grape juice

c) it is dextrorotatory

d) it is made of galactose and glucose

**151) catalytic protein is called as**

a) amino group protein

b) enzyme

c)catalysis

d) carbon R group chain

**151) which of the following occur when hydrogen is reacted with vegetable oils?**

a) the hydrogenated vegetable oil will contain fewer trans fats

b) the hydrogenated vegetable oil will become solid at room temperature

c) the hydrogenated vegetable oil will become oil

d) the hydrogenated vegetable oil will become saturated fat.

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**152) the folding of ……. Contiguous segments of polypeptide form secondary structure of protein**

a) 3-20

b)3 -30

c)3-300

d) 20

**153) the three-dimensional arrangement of two or more polypeptide is called**

a) primary structure

b) secondary structure

c) tertiary structure

d) quaternary structure

**154) storage protein has ability to bind and store specific element or compounds…… is an example of storage protein that store copper**

a) hemoglobin

b) ferritin

c) ceruloplasmin

d) urease

**155) this effect of ph. and carbon dioxide concentration on the binding and release of oxygen by hemoglobin is called the**

a) Bohr effect

b) nelson effect

c) nucleus effect

d) electron removal

**156) the following sterol is present in cell membrane of fungi**

a) campesterol

b) ergosterol

c)stigmasterol

d) sitosterol

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**157) osazone are obtain by adding a mixture of phenyl hydrazine hydrochloride and sodium acetate to sugar solution and heating in water bath for 45 mint which two atom in the sugar molecule are involved in osazone formation?**

a) C1,C2

b) C1, C6

c) C1 , C4

d)C3 ,C5

**158) esters of fatty acid containing groups in addition to an alcohol and fatty acid is called as**

a) derived lipid

b) complex lipid

c) simple lipid

d) none

**159) excess iron has a significant affinity for specific organs particularly**

a) the lungs, liver, and endocrine gland

b) the heart, liver, and endocrine gland

c) endocrine gland

d) liver only

**160) out of 20 amino acids …. contain a secondary amino group is called an imino acid**

a) proline

b) serine

c) histidine

d) methionine

**161) current evidence suggests that diet rich in omega 3 fatty acid are beneficial particularly for**

a) cardiovascular disease

b) Alzheimer disease

c) arthritis

d) all

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162) margarines are vegetable …….

a) Oil

b) Wax

c)Carbohydrate

d)protein

**163) the main difference between saturated and unsaturated fatty acid is……**

a) the number of carbon atom

b) the presence of keto group

c) the one is absent from phospholipid

d) the presence of double

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