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Best of luck!



Question # 16 of 30 (Start time: 01:51:09 AM, 27 December 2020)

Total Marks

The melting point of fatty acids depends upon chain length and _____

Select the correct option

☐ The shape of the fatty acids

☒ Degree of unsaturation

☐ The position of the double bond

☐ Charge on the carbon

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Question # 8 of 30 (Start time: 12:56:55 PM, 28 June 2021)

Total Marks:

Which of the following is not a component of a phospholipid?

Select the correct option

☐	Alcohol
☒	Protein
☐	Glycerol
☐	Phosphate

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Question # 13 of 30 (Start time: 12:34:31 AM, 27 December 2020)

Total Marks:

Degree of Saturation (Y) (%) of Oxygen binding sites on all myoglobin or hemoglobin molecules can be any value between _____

Select the correct option

☐	0 and 1
☐	-1 and +1
☒	0 and 100
☐	None of the above

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Proteins may exist in the form of multi-subunits. An advantage of a multi-subunit structure is that the different subunits can have different activities and cooperate in a common function. This is best understood by the structure of the enzyme _____ which exists as a multi-protein complex.

Select the correct option

☒	pyruvate dehydrogenase	A Good Education is a Foundation For a Better Future CORRECT ANSWER SOLVED BY HADI EMAIL:hadirajputofficial@gmail.com WHATSAPP& CALL:03087122922	
☐	hemoglobin		
☐	ribozyme		
☐	Ig A		

Question # 19 of 30 (Start time: 01:57:00 PM, 28 June 2021)

Total Marks: 1

Fats are the _____ of fatty acids and glycerol.

Select the correct option

☒	Esters	A Good Education is a Foundation For a Better Future CORRECT ANSWER SOLVED BY HADI EMAIL: hadirajputofficial@gmail.com WHATSAPP& CALL: 03087122922
☐	Tautomer	
☐	Isomer	
☐	Ether	

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Question # 3 of 30 (Start time: 01:20:52 PM, 28 June 2021)

Total Marks: 1

In Poly unsaturated fatty acids; the carbon of the methyl group is known as ____ carbon.

Select the correct option

☒	Omega
☐	Alpha
☐	Mu
☐	Bravo

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Question # 22 of 30 (Start time: 01:58:17 PM, 28 June 2021)

Total Marks:

Esters of fatty acids containing groups in addition to an alcohol and a fatty acid called as

Select the correct option

☐	None
☐	Complex lipids
☒	Simple lipid
☐	Derived lipid

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Question # 9 of 30 (Start time: 01:46:26 AM, 27 December 2020)

Total Marks

The family of polyunsaturated fatty acids (PUFAs) with a double bond between the third and fourth carbon from the methyl end of the chain are of special importance in human ———

Select the correct option



Mental health



Nutrition

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Question # 2 of 30 (Start time: 01:20:23 PM, 28 June 2021)

Total Marks: -

Alpha helices are the most common secondary structure found in proteins. Nearly all _____ proteins contain alpha helices in their membrane spanning domains.

Select the correct option

☐	transport
☐	protective
☐	globular
☒	trans membrane

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Which of the following fatty acids would have the lowest critical micelle concentration -----

Select the correct option

☐ C8-COOH

☒ C4-COOH

☐ C6-COOH

☐ C5-COOH

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Question # 2 of 30 (Start time: 12:54:05 PM, 28 June 2021)

Total Marks: 1

Traditionally during reversible binding of protein the curve starts with pH at -----, temperature at ----- Centigrade, and PaO₂ at -----.

Select the correct option

☐

8.4, 42°C and 50 mm Hg

☐

8.4, 42°C and 60 mm Hg

☒

7.4, 37 °C and 40 mm Hg

☐

7.4, 42°C and 40 mm Hg

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Question # 25 of 30 (Start time: 01:11:33 PM, 28 June 2021)

Total Marks:

The surface of myoglobin is polar, important for interacting with----- aqueous environment of cytosol.

Select the correct option

☐	non polar	
☒	polar	A Good Education is a Foundation For a Better Future CORRECT ANSWER SOLVED BY HADI EMAIL:hadirajputofficial@gmail.com WHATSAPP& CALL:03087122922
☐	inorganic	
☐	organic	

The partial pressure of oxygen (P50) is a conventional measure of hemoglobin affinity for -----

Select the correct option

☒	Oxygen	A Good Education is a Foundation For a Better Future CORRECT ANSWER SOLVED BY HADI EMAIL: hadirajputofficial@gmail.com WHATSAPP& CALL: 03087122922
☐	Sulfur	
☐	Carbon	
☐	Nitrogen	

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Question # 16 of 30 (Start time: 01:05:30 PM, 28 June 2021)

Total Marks: 1

Catalytic proteins are called as -----

Select the correct option

- | | |
|----------------------------------|-----------------------|
| ☐ | Catalysts |
| ☐ | Carbon R chain groups |
| ☐ | Amino group proteins |
| ☒ | Enzymes |

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Question # 19 of 30 (Start time: 12:43:26 PM, 28 June 2021)

Total Marks:

The pKa value for acetic acid is _____

Select the correct option

☐	7.66
☒	4.76
☐	3.76
☐	5.76

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Question # 11 of 30 (Start time: 01:47:42 AM, 27 December 2020)

Total Marks:

Hemoglobin must bind oxygen efficiently in the lungs, where the pO_2 is about _____ mmHg and release oxygen in the tissues, where pO_2 is about _____ mmHg.

Select the correct option

- | | |
|----------------------------------|------------------|
| ☒ | 100 and 35 to 40 |
| ☐ | 50 and 35 to 40 |
| ☐ | 60 and 35 to 40 |
| ☐ | 40 and 35 to 40 |

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Question # 13 of 30 (Start time: 01:55:22 PM, 28 June 2021)

Total Marks: 1

The enzyme that catalyzes the interchange, or shuffling, of disulfide bonds until the bonds of the native conformation are formed is called:

Select the correct option

☐	sulfide dehydrogenase
☐	protein lyase
☐	protease
☒	protein disulfide isomer

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Question # 6 of 30 (Start time: 12:32:51 PM, 28 June 2021)

Total Marks: 1

During the reversible binding of protein the Oxygenated (MbO₂) and deoxygenated (Mb) myoglobin exist in a ----- equilibrium



Select the correct option

Reverse



Simple



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Question # 29 of 30 (Start time: 01:36:19 PM, 28 June 2021)

Total Marks:

Haemoglobin, the red pigment in blood, consists of a protein component and the iron complex of derivative

Select the correct option

☐	Protein
☐	Benzene ring
☐	Iron
☒	porphyrin

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Question # 7 of 30 (Start time: 12:56:10 PM, 28 June 2021)

Total Marks: 1

During tense stage of haemoglobin the binding sites are -----

Select the correct option

- | | | |
|----------------------------------|----------|--|
| ☐ | replaced | |
| ☐ | closed | |
| ☒ | hindered | |
| ☐ | opened | |

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Question # 20 of 30 (Start time: 01:57:15 PM, 28 June 2021)

Total Marks: 1

The molecular weight of haemoglobin is about

Select the correct option

☐	23,650
☒	64,450
☐	78,450
☐	62,450

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Question # 16 of 30 (Start time: 12:40:33 PM, 28 June 2021)

Total Marks:

Which of the following is a characteristic of both triacylglycerols and glycerophospholipids:

Select the correct option



Both contain fatty acids and are saponifiable



Both can be negatively charged at cellular pH.



Both contain carboxyl groups and are amphipathic.



Both contain glycerol and ether bonds.

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Question # 5 of 30 (Start time: 01:44:21 AM, 27 December 2020)

Total Marks: 1

Fatty acids occur in the body mainly as ----- in natural fats and oils.

Select the correct option

☐
☐
☒
☐

- | | |
|------------|-----|
| Protein | 0.0 |
| Esters | 0.0 |
| Oils | 1.0 |
| Fatty acid | 0.0 |

A protein is called a _____ protein if its amino acid composition and molecular conformation are unchanged from that found in natural states.

Select the correct option

☒	native	
☐	natural	
☐	folded	
☐	functional	

Question # 6 of 30 (Start time: 02:05:07 AM, 27 December 2020)

Total Marks:

One degradation product of Haemoglobin is the brown bile pigment called as -----

Select the correct option

☒

Bilirubin

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☐

Biliverdin

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Question # 13 of 30 (Start time: 02:07:59 AM, 27 December 2020)

Total Marks:

Eicosanoids are derived from either _____ fatty acids.

Select the correct option

☐	omega-3 (ω -3)	
☐	omega-6 (ω -6)	
☐	none of given	
☒	omega-3 (ω -3) or omega-6 (ω -6)	

Question # 26 of 30 (Start time: 02:40:27 AM, 27 December 2020)

Total Marks: 1

Once a heme group is oxidized, what molecule is produced?

Select the correct option

☐	methemoglobin	
☒	hemoglobin	
☐	myoglobin	
☐	hemoglobin c	

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D-amino acids are also non standard amino acids that occur naturally. Which of the following D-amino acid is found in the cell wall of Gram positive bacteria?

Select the correct option

☒	D-alanine	A Good Education is a Foundation For a Better Future CORRECT ANSWER SOLVED BY HADI EMAIL: hadirajputofficial@gmail.com WHATSAPP& CALL-03087122922	
☐	5-hydroxy lysine		
☐	D-serine		
☐	cysteine		

Question # 14 of 30 (Start time: 03:14:27 AM, 27 December 2020)

Total Marks: 1

All of the following are involved in stabilizing the three dimensional tertiary structure of proteins except:

Select the correct option

☒	glycosidic bonds
☐	hydrophobic interactions
☐	disulphide bridges
☐	hydrogen bonds

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Question # 18 of 30 (Start time: 02:34:59 AM, 27 December 2020)

Total Marks: 1

Histidine is generally considered to be a ---- amino acid

Select the correct option

☒	Polar
☐	Non polar

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The process which convert unsaturated fatty acid to saturated fatty acid -----

Select the correct option



Hydrogenation



Glycolysis



Proteolysis



Liquefaction

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During relaxed stage of haemoglobin the binding sites are -----

Select the correct option



hindered



replaced



opened



closed

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Question # 20 of 30 (Start time: 01:30:35 PM, 28 June 2021)

Total Marks: 1

Fats are abundantly found in

Select the correct option

☐

Reproductive tissue

☒

Vegetative tissue

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A _____ also called a super secondary structure is simply a recognizable folding pattern involving two or more elements of secondary structure and the connection(s) between them.

Select the correct option

☐	β sheet	A Good Education is a Foundation For a Better Future CORRECT ANSWER SOLVED BY HADI EMAIL:hadirajputofficial@gmail.com WHATSAPP& CALL:03087122922
☐	polypeptide	
☒	motif	
☐	domain	

Question # 6 of 30 (Start time: 01:39:43 PM, 28 June 2021)

Total Marks: 1

The conformational change of hemoglobin is usually described as changing from ----- state with low affinity for O₂ to ----- state with a high affinity for O₂.

Select the correct option

☒	T (Tense) to R (relaxed)
☐	High tense to tense
☐	Tense to high tense
☐	R (relaxed) to T (Tense)

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Question # 30 of 30 (Start time: 12:56:11 AM, 27 December 2020)

Total Marks:

Fatty acids produce alkyl alcohols by _____ of carboxylic group.

Select the correct option

☐	Esterification
☐	Oxidation
☒	Reduction
☐	Methylation

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Question # 13 of 30 (Start time: 12:38:07 PM, 28 June 2021)

Total Marks: 1

β Sheets are a type of regular secondary structure that maximizes hydrogen bonding between the peptide backbones. The sheet is described as _____ if the polypeptide strands run in the same direction (as defined by their amino and carboxy terminals)

Select the correct option

☐	aligned
☐	anti-parallel
☐	helical
☒	parallel

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Question # 20 of 30 (Start time: 12:44:03 AM, 27 December 2020)

Total Marks:

What are the main things responsible for causing the Bohr Shift?

Select the correct option

☒	increased carbon dioxide partial pressure	
☐	increased oxygen requirements	
☐	increased H ⁺ ions	
☐	carbon monoxide's high affinity for haemoglobin	

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Question # 26 of 30 (Start time: 01:35:32 PM, 28 June 2021)

Total Marks: 1

What are the components of a triglyceride molecule?

Select the correct option

☐ One glycerol and one cholesterol

☒ One glycerol and three fatty acid

☐ One glycerol and two cholesterol

☐ One glycerol and two fatty acid

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Question # 11 of 30 (Start time: 01:42:06 PM, 28 June 2021)

Total Marks:

Carbonic acid dissociates to form

Select the correct option



H^+ and $H_2CO_3^-$



carbonic acid anhydrase



H^+



hydrogen carbonate ions and hydrogen ions

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Question # 7 of 30 (Start time: 01:53:35 PM, 28 June 2021)

Total Marks:

When the oxygen from the -OH group in a monosaccharide is removed, the resulting compound formed is known as _____.

Select the correct option

☒	deoxy sugar	A Good Education is a Foundation For a Better Future CORRECT ANSWER SOLVED BY HADI EMAIL:hadirajputofficial@gmail.com WHATSAPP& CALL-03087122922
☐	phospho sugar	
☐	amino sugar	
☐	carboxyl sugar	

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Question # 14 of 30 (Start time: 01:02:28 PM, 28 June 2021)

Total Marks: 1

The name of saturated acids end in -----

Select the correct option

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anoic

none

dnoic

enoic

Question # 18 of 30 (Start time: 12:42:09 PM, 28 June 2021)

Total Marks:

Micelles of fatty acids in water are organized such that the ____ face the solvent and the ____ are directed toward the interior.

Select the correct option

☐	hydrocarbon chains; carboxylic acid groups	
☐	Hydrophobic heads; hydrophobic tails	
☒	hydrophobic tails; hydrophilic heads	A Good Education is a Foundation For a Better Future CORRECT ANSWER SOLVED BY HADI EMAIL: hadirajputofficial@gmail.com WHATSAPP& CALL: 03087122922
☐	carboxylic acid groups; hydrocarbon chains	

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Question # 22 of 30 (Start time: 01:09:14 PM, 28 June 2021)

Total Marks: 1

_____ are major structural elements of biological membranes.

Select the correct option

☐	Proteins	
☐	None of given	
☒	Phospholipids	A Good Education is a Foundation For a Better Future CORRECT ANSWER SOLVED BY HADI EMAIL: hadirajputofficial@gmail.com WHATSAPP& CALL: 03087122922
☐	Phospholipids and sterols	

Question # 18 of 30 (Start time: 01:06:24 PM, 28 June 2021)

Total Marks: 1

Excess iron has a significant affinity for specific organs, particularly

Select the correct option

- | | |
|----------------------------------|--|
| ☐ | endocrine glands |
| ☒ | Liver only |
| ☐ | The lungs, liver and endocrine glands. |
| ☐ | The heart, liver and endocrine glands. |

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Question # 7 of 30 (Start time: 01:23:00 PM, 28 June 2021)

Total Marks: 1

Among aromatic amino acids, _____ is non-polar while _____ is polar.

Select the correct option

☐	tryptophan, lysine
☐	tyrosine, alanine
☐	phenylalanine, glycine
☒	phenylalanine, tyrosine

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Question # 27 of 30 (Start time: 01:12:36 PM, 28 June 2021)

Total Marks: 1

Fatty Acids are classified on the basis of ----

Select the correct option

☒	All of above:	A Good Education is a Foundation For a Better Future CORRECT ANSWER SOLVED BY HADI EMAIL: hadirajputofficial@gmail.com WHATSAPP& CALL-03087122922	
☐	Hydrocarbon Chain Length		
☐	Degree of Saturation		
☐	Dietary Requirement		

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