

VIRTUAL UNIVERSITY OF PAKISTAN

A Good Education is a Foundation For a Better Future

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WARNING: Team HADI is not responsible for any mistake or wrong answer. All students reading and using this document may check and confirm the answers at their own.



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FACEBOOK ID: <https://www.facebook.com/hadipastpapers/>

Best of luck!



Question # 19 of 30 (Start time: 02:55:59 AM, 27 December 2020)

Total Marks: 1

Sickle cells are very fragile and rupture easily. This results in _____

Select the correct option

☒	Anemia	
☐	Blood cancer	
☐	Heamophilia	
☐	Aplastic anemia	

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A loss of three-dimensional structure sufficient to cause loss of function of the protein is called _____

Select the correct option

☒	denaturation	100%
☐	catalysis	0%
☐	reactivation	0%
☐	misfolding	0%

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Question # 30 of 30 (Start time: 03:20:17 AM, 27 December 2020)

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

☒	trans membrane	
☐	protective	
☐	transport	
☐	globular	

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

☒	hemoglobin	
☐	npzyme	
☐	pyruvate dehydrogenase	
☐	Ig A	

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A molecule bound reversibly by a protein is called a _____

Select the correct option

☒	ligand	24
☐	lysozyme	24
☐	sub-unit	24
☐	chelator	24

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Cis-9-hexadecenoic acid, that is a fatty Acid with nutritional significance is commonly known as _____ acid

Select the correct option

☐	Oleic
☐	Palmitic
☒	Palmitoleic
☐	None of given

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Question # 23 of 30 (Start time: 02:13:20 AM, 27 December 2020)

Total Marks: 1

Clusters of twisted strands of β -sheet form the core of many _____ proteins.

Select the correct option

☐	fibrous	
☒	globular	
☐	collagenous	
☐	structural	

Question # 22 of 30 (Start time: 02:13:08 AM, 27 December 2020)

Total Marks:

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

Select the correct option

☒	polar
☐	non polar
☐	organic
☐	inorganic

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Question # 12 of 30 (Start time: 02:07:26 AM, 27 December 2020)

Total Marks:

The characteristic pH at which the net electric charge on amino acid molecule is zero is called _____.

Select the correct option

☐	cationic pH	
☒	isoelectric point	
☐	ampholytic point	
☐	anionic point	

Question # 28 of 30 (Start time: 03:19:31 AM, 27 December 2020)

Total Marks: 1

The second degradation product of haemoglobin is green pigment biliverdin, the result of breakdown by oxidation occurs in -----

Select the correct option

- ☒ liver
- ☐ heart
- ☐ kidney
- ☐ spleen

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In contrast to myoglobin hemoglobin can bind ----- oxygen molecules-one at each of its heme group

Select the correct option



Four



Five



One



Two

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Apart from the 20 standard amino acids, some other amino acids may also be synthesized and become a part of the protein. An example of such an amino acid is _____ which is a naturally occurring, genetically coded amino acid used by some methanogenic archaea.

Select the correct option

☒	pyrrolysine	
☐	phenylalanine	
☐	aspartic acid	
☐	sialic acid	

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Storage proteins have the ability to bind and store specific elements or compounds. _____ is an example of a storage protein that stores copper.

Select the correct option

☐	Hemoglobin	
☒	Ferritin	
☐	Ceruloplasmin	
☐	Urease	

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The conformational change of hemoglobin is usually described as changing from T (Tense) state to R (Relaxed) state with a low affinity for Oxygen.

Select the correct option

True



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False



Question # 10 of 30 (Start time: 02:06:26 AM, 27 December 2020)

Total Marks:

Oxyhemoglobin Dissociation Curve Bohr effect decreased affinity of haemoglobin for ----- gas caused by an increase of carbon dioxide pH etc.

Select the correct option



Oxygen



Carbon dioxide



Ozone



Nitrogen

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Question # 1 of 30 (Start time: 02:46:33 AM, 27 December 2020)

Total Marks:

Based on its structural similarity to other lipids, lipid most likely functions as -----

Select the correct option

☐	a vitamin required for vision.	
☒	a membrane component.	
☐	an energy storage molecule.	
☐	a sex hormone.	

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Question # 15 of 30 (Start time: 02:09:39 AM, 27 December 2020)

Total Marks:

The process by which oxygen enters the blood from the alveoli is

Select the correct option

- | | |
|----------------------------------|-----------------------|
| ☐ | facilitated diffusion |
| ☒ | diffusion |
| ☐ | active transport |
| ☐ | none |

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Question # 11 of 30 (Start time: 02:30:10 AM, 27 December 2020)

Total Marks: 1

The melting properties of fatty acids and lipid bilayers is due primarily to

Select the correct option

☐	hydrogen bonds	
☒	Vander Waals forces	
☐	electrostatic interactions	
☐	covalent bonds	

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The 18-carbon with one double bond named as

Select the correct option

☐	Palmitic acid
☐	Propionic acid
☒	Oleic acid
☐	Butyric acid

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Catalytic proteins are called as -----

Select the correct option

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

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Question # 12 of 30 (Start time: 02:30:59 AM, 27 December 2020)

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

- ☒ Hydrophobic heads; hydrophobic tails
- ☐ hydrocarbon chains; carboxylic acid groups
- ☐ hydrophobic tails; hydrophilic heads
- ☐ carboxylic acid groups; hydrocarbon chains

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Question # 5 of 30 (Start time: 02:25:20 AM, 27 December 2020)

Total Marks: 1

The positions of any _____ in fatty acids are specified relative to the carboxyl carbon by superscript numbers following Δ (delta).

Select the correct option

☐	Carbon atom	
☐	Hydrogen atom	
☒	double bonds	
☐	R-group	

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Which of the following protects our heart and kidneys from injury?

Select the correct option.



Fat



Muscles



Skin



Lubricants

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Question # 21 of 30 (Start time: 02:12:41 AM, 27 December 2020)

Total Marks: 1

The form of an amino acid that has both a positive and a negative charge is called a _____.

Select the correct option

☒	zwitterion	
☐	non-ionic	
☐	cation	
☐	anion	

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Question # 1 of 30 (Start time: 01:16:01 AM, 27 December 2020)

Total Marks: 1

The _____ gas is used for aerobic synthesis of ATP in muscle mitochondria during the case of severe exercise.

Select the correct option

☒	Oxygen
☐	Carbon dioxide
☐	ozone
☐	none

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The name of Unsaturated acids with double bonds end in -----

Select the correct option

☒	enoic	
☐	enoic	
☐	dnoic	
☐	none of above	

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Question # 9 of 30 (Start time: 02:29:27 AM, 27 December 2020)

Total Marks: 1

The net charge on alanine in acidic solution (pH less than 2) is _____.

Select the correct option

☐	Negative	
☒	Positive	
☐	Neutral	
☐	First negative then becomes neutral	

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Question # 28 of 30 (Start time: 02:42:07 AM, 27 December 2020)

Total Marks: 1

Which of the following is an imino acid?

Select the correct option

☒	Proline	✓
☐	Lysine	✗
☐	Alanine	✗
☐	Histidine	✗

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The net charge on alanine in acidic solution (pH less than 2) is _____.

Select the correct option

☐

Negative

☒

Positive

☐

Neutral

☐

First negative then becomes neutral

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Question # 15 of 30 (Start time: 02:34:01 AM, 27 December 2020)

Total Marks: 1

Upon reaction with strong acids pentoses produce _____ while hexoses produce _____

Select the correct option

☒	furfural, hydroxy methyl furfural	
☐	hydroxy methyl furfural, furfural	
☐	aldehydes, ketone	
☐	deoxy sugars, amino sugars	

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Question # 4 of 30 (Start time: 02:24:55 AM, 27 December 2020)

Total Marks: 1

Fatty acids are carboxylic acids in which length of _____ chains range from 4 to 36 carbons.

Select the correct option

☒	Hydrocarbon	
☐	Polycarbon	
☐	Monosaccharide	
☐	Disaccharides	

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Question # 8 of 30 (Start time: 03:11:57 AM, 27 December 2020)

Total Marks: 1

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

☐	heamoglobin	A
☒	ribozyme	A
☐	pyruvate dehydrogenase	A
☐	Ig A	A

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Question # 21 of 30 (Start time: 01:31:41 PM, 28 June 2021)

Total Marks: 1

Lipids are classified in following three major groups:

Select the correct option

☐	Precursor and Derived Lipids
☐	Simple lipids
☐	Complex Lipids and
☒	ALL of above

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Question # 12 of 30 (Start time: 12:37:36 PM, 28 June 2021)

Total Marks: 1

_____ structure of proteins refers to particularly stable arrangements of amino acid residues giving rise to recurring structural patterns.

Select the correct option

☐	Primary	
☐	Tertiary	
☐	Quaternary	
☒	Secondary	A Good Education is a Foundation For a Better Future CORRECT ANSWER SOLVED BY HADI EMAIL:hadirajputofficial@gmail.com WHATSAPP& CALL:03087122922

Question # 21 of 30 (Start time: 01:53:44 AM, 27 December 2020)

Total Marks:

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

Select the correct option

- | | |
|----------------------------------|---------------|
| ☒ | methemoglobin |
| ☐ | hemoglobin |
| ☐ | myoglobin |
| ☐ | hemoglobin c |

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Question # 19 of 30 (Start time: 01:52:52 AM, 27 December 2020)

Total Marks:

The carbon of the terminal methyl group is called the ----- regardless of the chain length.

Select the correct option

☐	Alpha	
☐	Beta	
☒	Gamma	
☐	none	

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Question # 17 of 30 (Start time: 01:05:58 PM, 28 June 2021)

Total Marks: 1

Phospholipids frequently have nitrogen containing bases and other substituent are

Select the correct option

☐

Sphingophospholipids the alcohol is sphingosine

☐

None of any option

☐

Glycerophospholipids the alcohol is glycerol

☒

Both

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Question # 3 of 30 (Start time: 12:30:37 PM, 28 June 2021)

Total Marks: 1

Clusters of twisted strands of β -sheet form the core of many _____ proteins:

Select the correct option

☐	structural
☒	globular
☐	collagenous
☐	fibrous

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Question # 1 of 30 (Start time: 12:28:49 PM, 28 June 2021)

Total Marks: 1

Unfolded proteins that have become thermodynamically trapped in a misfolded dead may be unfolded by another group of proteins known as _____.

Select the correct option

☐	reducetases	
☐	immunoglobulins	
☒	chaperones	
☐	cytochromes	

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Question # 3 of 30 (Start time: 01:42:45 AM, 27 December 2020)

Total Marks: 1

Unesterified fatty acids are transported in the circulation in association with -----

Select the correct option

☒	Albumin
☐	Gelatin
☐	Casein
☐	None of above

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Question # 28 of 30 (Start time: 01:59:36 AM, 27 December 2020)

Total Marks: 1

The quaternary structure of human hemoglobin is best described as a

Select the correct option

☐	dimer of two myoglobin dimers.	0/1
☒	tetramer of identical subunits	1/1
☐	tetramer of four different subunits	
☐	tetramer of two different subunits	

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Question # 10 of 30 (Start time: 01:54:43 PM, 28 June 2021)

Total Marks: 1

Simplest carbohydrate is _____

Select the correct option



Glycerine



Glucose



Glyceraldehyde



Sucrose

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Question # 7 of 30 (Start time: 02:27:16 AM, 27 December 2020)

Total Marks:

Myoglobin can bind to four Oxygen molecules because it contains 4 heme groups.

Select the correct option

True



False



Question # 19 of 30 (Start time: 01:29:41 PM, 28 June 2021)

Total Marks:

With reference to carbohydrate structure, which type of isomers have nearly identical chemical properties but differ in their interaction with plane-polarized light?

Select the correct option

☐	aldose-ketose isomerism
☒	enantiomers
☐	epimers
☐	anomers

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Question # 1 of 30 (Start time: 01:19:16 PM, 28 June 2021)

Total Marks: 1

Hemoglobin forms an unstable reversible bond with oxygen. In the oxygenated state, it is called -----

Select the correct option

☒	Hemoglobin	A Good Education is a Foundation For a Better Future CORRECT ANSWER SOLVED BY HADI EMAIL:hadirajputofficial@gmail.com WHATSAPP& CALL:03087122922	1/1
☐	oxyhemoglobin		1/1

Question # 13 of 30 (Start time: 02:32:39 AM, 27 December 2020)

Total Marks:

Which of the following molecules is a typical fatty acid?

Select the correct option

☐ A molecule that has an even number of carbon atoms in a branched chain

☒ A polar hydrocarbon with that reacts with NaOH to form a salt.

☐ An amphipathic dicarboxylic acid with unconjugated double bonds.

☐ A molecule that has one cis double bond in a linear carbon chain.

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Electrostatic interactions help stabilize the three dimensional tertiary structure of proteins. These interactions are formed as a result of ionic bonds formed between the positively and negatively charged amino acids. The positive charges are usually present on _____ amino acids.

Select the correct option

☒	basic	
☐	acidic	
☐	neutral	
☐	all	

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