

Composed by Zainab Arshad

Please confirm the answers before attempting, All answers are not confirmed

By vu Literature & education  
Department

BIO202: Grand Quiz

Quiz Start Time: 07:41 AM, 27 December 2021

100% (10/10)

Question # 30 of 30 ( Start time: 08:16:51 AM, 27 December 2020 )

Total Marks:

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

Select the correct option

☒

C4-COOH

☐

C5-COOH

☐

C6-COOH

☐

C8-COOH

Click to Save Answer & Move to Next Question

Question # 29 of 30 ( Start time: 08:16:22 AM, 27 December 2020 )

Total Marks: 1

Which amino acid causes least steric hinderance and is often found in bends or tightly packed chains of fibrous proteins?

Select the correct option

<input type="radio"/>	tyrosine
<input type="radio"/>	alanine
<input checked="" type="radio"/>	glycine
<input type="radio"/>	proline

[Click to Save Answer & Move to Next Question](#)

BIO202-Grand Quiz

TIME LEFT: 00:00:00  
sec(s)


Question # 28 of 30 ( Start time: 08:14:54 AM, 27 December 2020 )

Total Marks:

This effect of pH and CO<sub>2</sub> concentration on the binding and release of oxygen by haemoglobin is called the -----

Select the correct option

<input checked="" type="radio"/>	Bohr effect
<input type="radio"/>	Nelson effect
<input type="radio"/>	Nucleus effect
<input type="radio"/>	Electron removal

 Click to Save Answer & Move to Next Question

BIO202: Grand Quiz

Quiz Start Time: 07:41 AM, 27 December 2021

Question # 26 of 30 ( Start time: 08:12:42 AM, 27 December 2020 )

Total Marks:

What is the name of the molecule formed when oxygen binds to haemoglobin?

Select the correct option

☒

Oxyhaemoglobin

☐

Carbaminohaemoglobin

☐

Oxyglobin

☐

Oxygen-haemoglobin

Click to Save Answer & Move to Next Question

Low levels of free fatty acids occur in all tissues, But substantial amounts sometimes can be found in the ---, particularly during fasting

Select the correct option

☐ Blood

☒ Plasma

☐ Stomach

☐ Intestine

[Click to Save Answer & Move to Next Question](#)

Question # 24 of 30 ( Start time: 06:11:22 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



Click to Save Answer &amp; Move to Next Question

Which among the following is a non-essential amino acid?

Select the correct option

☒ Serine

☐ Threonine

☐ Lysine

☐ Histidine



Click to Save Answer & Move to Next Question



Based upon the properties of the R group, mainly polarity and ability to interact with water, amino acids may be classified into \_\_\_\_ main classes.

Select the correct option

☐ two

☐ three

☒ five

☐ eleven



Click to Save Answer & Move to Next Question





Based upon the properties of the R group, mainly polarity and ability to interact with water, amino acids may be classified into \_\_\_\_ main classes.

Select the correct option

☒ two☐ three☐ five☐ eleven[Click to Save Answer & Move to Next Question](#)

BIO202 Grand Quiz Quiz Start Time: 07:41 AM, 27 December 2021

Question # 21 of 30 ( Start time: 08:07:35 AM, 27 December 2020 ) Total Marks:

During the reversible binding of protein the Oxygenated (MbO<sub>2</sub>) and deoxygenated (Mb) myoglobin exist in a ----- equilibrium

Mb + O<sub>2</sub>      MbO<sub>2</sub>

Select the correct option

☒ Simple

☐ Reverse

▶ Saving...



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

Select the correct option

- ☒ Hydrocarbon
- ☐ Polycarbon
- ☐ Monosaccharide
- ☐ Disaccharides

Click to Save Answer & Move to Next Question

Question # 19 of 30 ( Start time: 08:05:08 AM, 27 December 2020 )

Total Marks: 1

Misfolding of proteins may occur spontaneously or as a result of mutation. \_\_\_\_\_ is a disease that results from the misfolding of proteins in the body.

Select the correct option

☒ Parkinson's disease☐ Influenza☐ Tuberculosis☐ Hepatitis

Click to Save Answer &amp; Move to Next Question

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

- |                                  |         |
|----------------------------------|---------|
| <input type="radio"/>            | basic   |
| <input checked="" type="radio"/> | acidic  |
| <input type="radio"/>            | neutral |
| <input type="radio"/>            | all     |



Click to Save Answer & Move to Next Question

Question # 17 of 30 ( Start time: 08:02:18 AM, 27 December 2020 )

Total Marks

The hydrolysis of sucrose to glucose and fructose is catalyzed by sucrase, which is also present in the intestinal brush border like lactase and maltase. Sucrase is also known as \_\_\_\_\_.

Select the correct option

☒ invertase☐ furanose☐ glycogen dehydrogenase☐ amylase

Click to Save Answer &amp; Move to Next Question

Lipids are classified in following three major groups:

Select the correct option

- |                                  |                              |
|----------------------------------|------------------------------|
| <input type="radio"/>            | Simple lipids                |
| <input type="radio"/>            | Complex Lipids and           |
| <input type="radio"/>            | Precursor and Derived Lipids |
| <input checked="" type="radio"/> | ALL of above                 |

Click to Save Answer & Move to Next Question

MC200203102: LARAB ZAHRA

Time Left 07 sec(s)

BIO202 Grand Quiz

Quiz Start Time: 07:41 AM, 27 December 2020

Question # 15 of 30 ( Start time: 08:09:19 AM, 27 December 2020 )

Total Marks:

Which type of membrane lipid contains an acidic oligosaccharide?

Select the correct option

☐ globoside

☐ phosphatidylinositol

☒ cerebroside

☐ ganglioside

Click to Save Answer & Move to Next Question







MC200203152: LARAIB ZAHRA

Time Left 10 sec(s)

BIO202: Grand Quiz

Quiz Start Time: 07:41 AM, 27 December 2020

Question # 14 of 30 (Start time: 07:58:56 AM, 27 December 2020)

Total Marks:

What are the functions of dietary fat?

Select the correct option

- ☐ Provide energy to the body
- ☐ Cell signalling
- ☐ Form part of cellular membranes
- ☒ All of above



Click to Save Answer &amp; Move to Next Question



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

Click of Every Answer & Move to Next Question

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



Click to Save Answer & Move to Next Question



The binding of oxygen to one heme group enables an oxygen binding to the second heme group of the same hemoglobin molecule is called -----

Select the correct option

- |                                  |                      |
|----------------------------------|----------------------|
| <input checked="" type="radio"/> | Cooperative binding  |
| <input type="radio"/>            | Structural binding   |
| <input type="radio"/>            | Amino acid binding   |
| <input type="radio"/>            | Nucleic acid binding |

Click to Save Answer & Move to Next Question

hemoglobin binds O<sub>2</sub> molecules.

Select the correct option

- |                                  |      |
|----------------------------------|------|
| <input checked="" type="radio"/> | Four |
| <input type="radio"/>            | two  |
| <input type="radio"/>            | one  |
| <input type="radio"/>            | five |



Click to Save Answer & Move to Next Question

Question # 9 of 30 ( Start time: 07:52:53 AM, 27 December 2020 )

Total Marks: 1

hemoglobin binds O<sub>2</sub> molecules.

Select the correct option

☐ Four

☐ two

☐ one

☐ five

Click to Save Answer & Move to Next Question

BIO202:Grand Quiz

Quiz Start Time: 07:41 AM, 27 December 2021

Question # 8 of 30 ( Start time: 07:51:10 AM, 27 December 2020 )

Total Marks:

Which statement best describes 'domains' found in proteins?

Select the correct option

- ☐ It is a section of protein structure sufficient to perform a particular chemical or physical task such as binding of a substrate or other ligand.
- ☐ It is simply a recognizable folding pattern involving two or more elements of secondary structure and the connection(s) between them.
- ☒ It is the folding pattern of the secondary structural elements into a three-dimensional conformation.
- ☐ It is non- regular secondary structure that does not have a repeating element.



Click to Save Answer & Move to Next Question



Question # 7 of 30 ( Start time: 07:49:45 AM, 27 December 2020 )

Total Marks: 1

Approximately how many hemoglobin molecules are there in each red blood cell?

Select the correct option



30 million



300 million



50 million



5 million



Click to Save Answer &amp; Move to Next Question



Question # 6 of 30 ( Start time: 07:46:36 AM, 27 December 2020 )

Total Marks: 1

Which characteristic does this lipid share with a wax?

Select the correct option

☒ Both contain one or more carboxyl groups.

☐ Both contain a polar head

☐ Both contain three fatty acids.

☐ Both contain one or more ester bonds

[Click to Save Answer & Move to Next Question](#)

Which characteristic does this lipid share with a wax?

Select the correct option

☐ Both contain one or more carboxyl groups.

☐ Both contain a polar head

☐ Both contain three fatty acids.

☐ Both contain one or more ester bonds

[Click to See Answer & Move to Next Question](#)



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

Select the correct option

- |                                  |               |
|----------------------------------|---------------|
| <input checked="" type="radio"/> | methemoglobin |
| <input type="radio"/>            | hemoglobin    |
| <input type="radio"/>            | myoglobin     |
| <input type="radio"/>            | hemoglobin c  |



Click to Save Answer & Move to Next Question

Question # 4 of 30 ( Start time: 07:44:19 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  $\Delta$  (delta).

Select the correct option

- |                                  |               |
|----------------------------------|---------------|
| <input type="radio"/>            | Carbon atom   |
| <input type="radio"/>            | Hydrogen atom |
| <input checked="" type="radio"/> | double bonds  |
| <input type="radio"/>            | R-group       |



Click to Save Answer &amp; Move to Next Question

Question # 3 of 30 ( Start time: 07:43:01 AM, 27 December 2020 )

Total Marks: 1

which of following is example of derive lipid -----

Select the correct option



Carotenoid



Steroid



Terpenes



All of above

[Click to Save Answer & Move to Next Question](#)

Question # 1 of 30 ( Start time: 07:41:02 AM, 27 December 2020 )

Total Marks: 1

Which of the following is found in brain tissue?

Select the correct option

☐ D-alanine and D-glutamate☒ Free D-serine and D-aspartate☐ Free D-serine and D-alanine☐ Free D-serine and D-glutamate[Click to Save Answer & Move to Next Question](#)

When carbon dioxide binds directly with haemoglobin it forms

Select the correct option

☐ carbaminohaemoglobin

☐ carboxyhaemoglobin

☐ carbon dioxyhaemoglobin

☐ carboglobulin

Click to Save Answer & Move to Next Question



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