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HADI VU PAST PAPER

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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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Best of luck!

PAST PAPER

TEAM HADI VU

Question # 20 of 30 (Start time: 02:36:50 AM, 27 December 2020) Total Marks: 1

Phospholipids frequently have nitrogen containing bases and other substituent are

Select the correct option

- ○ Glycerophospholipids the alcohol is glycerol.
- ○ Sphingophospholipids the alcohol is sphingosine.
- ○ None of any option
- ■ Both

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BIO202:Grand Quiz

Quiz Start Time: 12:53 PM, 28 June 2021

Question # 26 of 30 (Start time: 01:11:57 PM, 28 June 2021)

Total Marks: 1

Proteins involved in respiration include heamoglobin, myoglobin and _____.

Select the correct option

- collagen
- cytochromes
- cellulases
- fibrin

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BIO202:Grand Quiz

Quiz Start Time: 12:28 PM, 28 June 2021

Question # 4 of 30 (Start time: 12:31:05 PM, 28 June 2021)

Total Marks: 1

The sterol which act as precursor of vitamin D2

Select the correct option

- Cholesterol
- Ergosterol
- Lanosterol
- Protein

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BIO202:Grand Quiz

Quiz Start Time: 01:42 AM, 27 December 2020

Question # 30 of 30 (Start time: 02:00:08 AM, 27 December 2020)

Total Marks: 1

The names of saturated fatty acids end in one of the following suffixes.

Select the correct option

- -enoic
- -ol
- -dehyde
- -anoic

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Question # 29 of 30 (Start time: 01:59:51 AM, 27 December 2020) Total Marks: 1

Aliphatic polar amino acids are ------- in nature

Select the correct option

- [x] Hydrophilic
- [ ] Hydrophobic
- [ ] Non-reactive
- [ ] Aromatic ringed tryptophan

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BIO202 Grand Quiz

Quiz Start Time: 12:53 PM, 28 June 2021

Question # 3 of 30 (Start time: 12:54:48 PM, 28 June 2021)

Total Marks: 1

Oxygen stored in red muscle myoglobin is released during O2 deprivation (e.g. severe exercise) to be used in muscle mitochondria for _____

Select the correct option

- Anaerobic synthesis of ATP molecules
- Aerobic synthesis of ATP molecules
- Aerobic synthesis of more O2
- Anaerobic synthesis of more CO2

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BIO202:Grand Quiz

Quiz Start Time: 12:53 PM, 28 June 2021

Question # 10 of 30 (Start time: 12:58:15 PM, 28 June 2021)

Total Marks: 1

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

Select the correct option

- Non polar
- Polar

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Question # 19 of 30 (Start time: 02:36:32 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)

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How many amino acids in the β chains of hemoglobin

Select the correct option

- [x] 146
- [ ] 141
- [ ] 140
- [ ] 435

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Question # 2 of 30 (Start time: 03:08:01 AM, 27 December 2020) Total Marks:

The partial pressure of oxygen needed to achieve half-saturation of the binding sites is called ----------

Select the correct option

- [x] P50
- [ ] P60
- [ ] P70
- [ ] none

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Excess iron has a significant affinity for specific organs, particularly:

Select the correct option

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

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

Select the correct option

- Derived lipid
- Complex lipids
- Simple lipid
- None

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Question # 17 of 30 (Start time: 01:27:40 AM, 27 December 2020) **Total Marks: 1**

This effect of pH and CO2 concentration on the binding and release of oxygen by haemoglobin is called the ----------

Select the correct option

◉	Bohr effect
○	Nelson effect
○	Nucleus effect
○	Electron removal

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A plot of degree of saturation (Y) measured at different partial pressures of oxygen (pO2) is called ----------

Select the correct option

- (●) Oxygen dissociation curve
- ( ) Carbon dissociation curve
- ( ) Nitrogen dissociation curve
- ( ) None

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Question # 11 of 30 (Start time: 02:06:44 AM, 27 December 2020) Total Marks:

Protein folding is governed by thermodynamics. The folding process involves a decrease in randomness and thus a decrease in _____.

Select the correct option

- (●) entropy
- ( ) flexibility
- ( ) stability
- ( ) interactions formed

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Sucrose, commonly known as table sugar, is formed by the reaction between glucose (Glc) and fructose (Fru). The glycosidic linkage found in sucrose can be denoted as _____.

Select the correct option

- ○ Glc (α 1 → 2 β) Fru
- ◉ Glc (α 1 → 4 β) Fru
- ○ Fru (α 1 → 6 β) Glc
- ○ Fru (α 1 → 2 β) Glc

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During reversible binding of protein the blood pH consequently rises, the affinity of haemoglobin for oxygen increases and the protein binds more O2 for transport to the ----------

Select the correct option

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- [x] Peripheral tissues
- [ ] Lung
- [ ] Heart
- [ ] Kidney

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hemoglobin binds O2 molecules.

Select the correct option

- [x] Four
- [ ] two
- [ ] one
- [ ] five

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

Select the correct option

- [x] polar
- [ ] non polar
- [ ] organic
- [ ] inorganic

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Question # 5 of 30 (Start time: 02:48:52 AM, 27 December 2020) Total Marks: 1

Lauric acid the saturated fatty acid having ------- carbon atom chain

Select the correct option

- 12
- 13
- 14
- 15

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Certain proteins that are denatured by heat, extremes of pH, or denaturing reagents can regain their native structure and biological activity if returned to conditions in which the native con-formation is stable. An example is the enzyme ribonuclease A which is denatured in a _____ solution in the presence of a reducing agent.

Select the correct option

- [x] concentrated urea
- [ ] buffer
- [ ] normal saline
- [ ] serum

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Question # 8 of 30 (Start time: 02:50:13 AM, 27 December 2020) Total Marks: 1

The iron atom of heme has ------ coordination bonds

Select the correct option

- six
- seven
- eight
- nine

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Question # 12 of 30 (Start time: 01:48:24 AM, 27 December 2020) Total Marks

Fetal haemoglobin shifts the oxygen saturation curve in what direction?

Select the correct option

- right and down
- left and down

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Question # 4 of 30 (Start time: 01:43:55 AM, 27 December 2020) Total Marks: 1

The ---------- change has no effect on the function of myoglobin.

Select the correct option

- (●) Conformational
- ( ) Amino acid

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The following sterol is present in the cell membrane of fungi?

Select the correct option

- Campesterol
- Ergosterol
- Stigmasterol
- Sitosterol

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Question # 8 of 30 (Start time: 01:45:41 AM, 27 December 2020) Total Marks: 1

During conformational change each successive addition of O2 shifts the equilibrium further toward the ------- state, thus addition of oxygen in the lungs.

Select the correct option

- (●) Relaxed state
- ( ) Tense state
- ( ) relaxed or tense state
- ( ) No change

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Question # 14 of 30 (Start time: 01:24:48 AM, 27 December 2020) Total Marks:

The three dimensional arrangement of two or more polypeptides is called

Select the correct option

- Primary structure
- Secondary structure
- Tertiary structure
- Quaternary structure

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Question # 17 of 30 (Start time: 01:52:16 AM, 27 December 2020) Total Marks: 1

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

Select the correct option

- (●) Hydrogenation
- ( ) Glycolysis
- ( ) Proteolysis
- ( ) Liquefaction

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BIO202:Grand Quiz

Quiz Start Time: 12:21 AM, 27 December 2020

Question # 9 of 30 (Start time: 12:29:50 AM, 27 December 2020)

Total Marks: 1

The sigmoidal binding curve of Hemoglobin for oxygen is possible due to --------- structure of hemoglobin.

Select the correct option

- (●) multi-subunit
- ( ) single-subunit

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Question # 10 of 30 (Start time: 02:51:32 AM, 27 December 2020) Total Marks: 1

Esters of fatty acids with higher molecular weight monohydric alcohols (having one OH group)

Select the correct option

- protein
- Waxes
- Steroid
- Lipid

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BIO202:Grand Quiz

Quiz Start Time: 12:21 AM, 27 December 2020

Question # 2 of 30 (Start time: 12:22:18 AM, 27 December 2020)

Total Marks: 1

The amide group of _____ serves as a site of attachment for oligosaccharide chains in glycoproteins.

Select the correct option

- Serine
- Threonine
- Asparagine
- All of these

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BIO202:Grand Quiz

Quiz Start Time: 03:07 AM, 27 December 2020

Question # 21 of 30 (Start time: 03:17:15 AM, 27 December 2020)

Total Marks: 1

The pKa value for acetic acid is _____.

Select the correct option

- 3.76
- 4.76
- 5.76
- 7.66

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Question # 19 of 30 (Start time: 01:07:27 PM, 28 June 2021) Total Marks: 1

During the formation of detergent ------- reaction of carboxyl group of fatty acid result in production of alkyl alcohols

Select the correct option

- (●) Oxidation
- ( ) Reduction

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Question # 12 of 30 (Start time: 03:28:51 AM, 27 December 2020) **Total Marks:** 1

In myoglobin and hemoglobin, heme is covalently linked with ---------- amino acid (eighth residue of F helix)

Select the correct option

- [x] histidine F8
- [ ] Alanine F8
- [ ] Both
- [ ] None of them

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Question # 7 of 30 (Start time: 03:24:54 AM, 27 December 2020) Total Marks:

Margarines are vegetable oils treated with partial hydrogenation to form semi solid ------

Select the correct option

- [x] Butter
- [ ] Oil
- [ ] Fat
- [ ] Protein

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Osazones are obtained by adding a mixture of phenyl hydrazine hydrochloride and sodium acetate to a sugar solution and heating in water bath for 45 mins. Which two carbon atoms in the sugar molecule are involved in osazone formation?

Select the correct option

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- [x] C1 and C2
- [ ] C1 and C6
- [ ] C1 and C4
- [ ] C3 and C5

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Question # 2 of 30 (Start time: 02:03:55 AM, 27 December 2020) **Total Marks:**

The hydrolysis of starch by the enzyme 'amylase' produces maltose. In the human body, maltose is further hydrolyzed by the enzyme maltase (present in intestinal brush border) to produce _____.

Select the correct option

- ○ galactose
- ◉ glucose
- ○ maltotrisoe
- ○ mannose

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Question # 4 of 30 (Start time: 02:04:29 AM, 27 December 2020) Total Marks: 1

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

Select the correct option

- Phosphate
- Protein
- Glycerol
- Alcohol

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Question # 22 of 30 (Start time: 02:38:24 AM, 27 December 2020) Total Marks: 1

Which of the following is a characteristic of both waxes and terpenes?

Select the correct option

- Both can contain oxygen.
- Both can contain an amino alcohol.
- Both can contain a fatty acid.
- Both can be non-saponifiable

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Question # 5 of 30 (Start time: 01:18:38 AM, 27 December 2020) Total Marks:

The cervice (Pocket)created by -------- amino acids in the interior of myoglobin create a binding pocket for heme.

Select the correct option

- ○ Polar
- ◉ Non-polar
- ○ Basic
- ○ Acidic

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Fats are abundantly found in

Select the correct option

- [x] Reproductive tissue

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- [ ] Vegetative tissue

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All of the following are true for lactose EXCEPT:

Select the correct option

- It is a reducing sugar.
- It is found abundantly in grape juice.
- It is dextrorotatory.
- It is made up of galactose and glucose.

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Hemoglobin consists of pairs of different proteins, designated as α and β chains.

Select the correct option

- [x] Two
- [ ] three
- [ ] Four
- [ ] Five

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Question # 9 of 30 (Start time: 03:26:17 AM, 27 December 2020) Total Marks: 1

Some proteins contain additional amino acids that arise by modification of an amino acid already present in a peptide i.e., after the protein has been synthesized. An example of such an amino acid is:

Select the correct option

- lysine
- 5-hydroxylysine
- peptidyl proline
- glutamic acid

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Question # 25 of 30 (Start time: 01:56:54 AM, 27 December 2020) Total Marks: 1

The hydrolysis of starch by the enzyme 'amylase' produces maltose. In the human body, maltose is further hydrolyzed by the enzyme maltase (present in intestinal brush border) to produce _____.

Select the correct option

- galactose
- glucose
- maltotrisoe
- mannose

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Question # 25 of 30 (Start time: 01:34:48 PM, 28 June 2021) Total Marks:

The oxygen dissociation curve for myoglobin has -------- shape. This reflects the fact that myoglobin reversibly binds a single molecule of oxygen

Select the correct option

- (●) hyperbolic
- ( ) Transverse
- ( ) Straight
- ( ) Longitudinal

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Question # 1 of 30 (Start time: 02:22:08 AM, 27 December 2020) Total Marks:

The strenuous exercise lowers the pO2 of muscle tissue to about ----- mm Hg hence permitting continued muscular activity

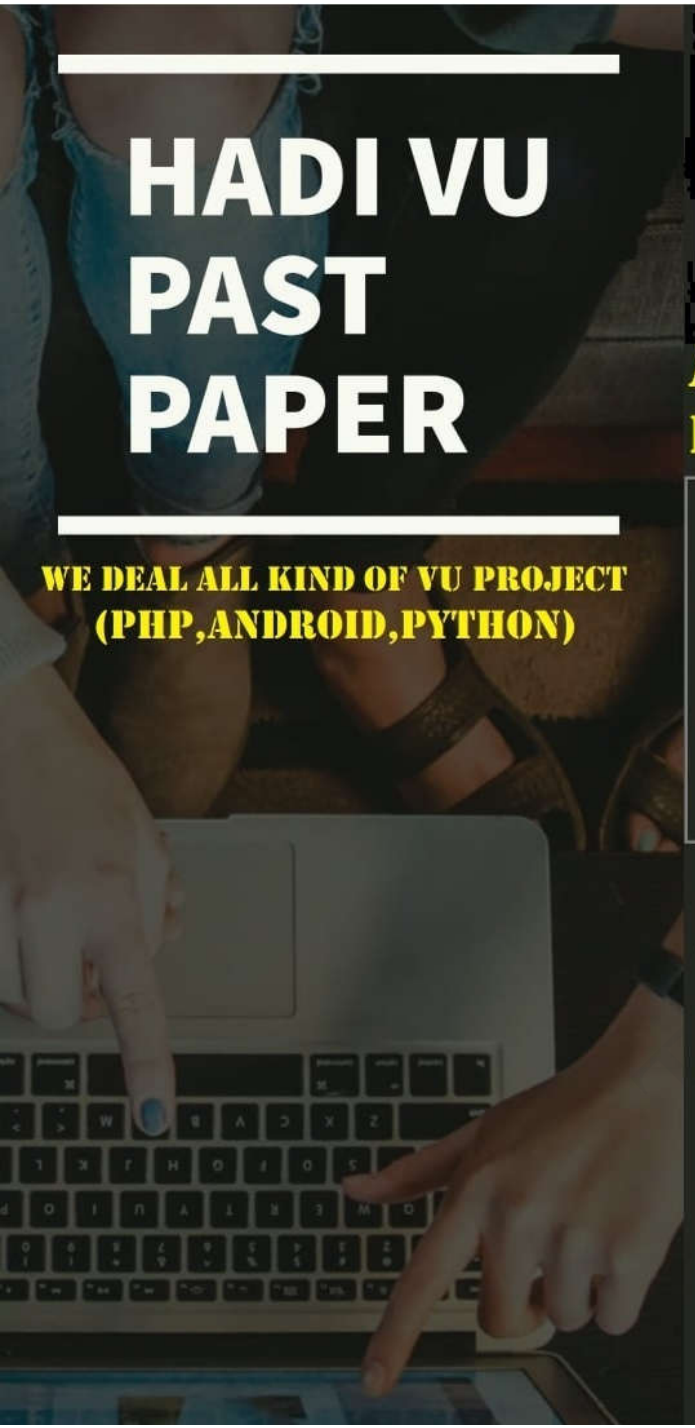
Select the correct option

- [x] 5
- [ ] 4
- [ ] 3
- [ ] 2

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