

BIO 302 Quiz# 01

Collected by Zabi Attariya 

Work Together team

Question # 1 of 10 (Start time: 11:21:08 AM, 05 June 2023)

tRNA having amino acid joins with _____ during protein synthesis.

Select the correct option



rRNA



mRNA



miRNA



ribosomes

Click to Save

Question # 2 of 10 (Start time: 11:21:58 AM, 05 June 2023)

How many different types of amino acids are present?

Select the correct option



19



10



23



20

Click to S

Question # 3 of 10 (Start time: 11:22:11 AM, 05 June 2023)

The length of DNA wrapped around nucleosomes also varies from one organism to the other ranging from about _____ bp.

Select the correct option

☐

700-750



170-240



255-470



300-400

Click to Save Answer & Move to Next Question

Nucleoside is _____

Select the correct option



Nucleotide - Phosphoric acid



Nucleotide - Phosphoric acid + N.B



Nucleotide + Phosphoric acid



Nucleotide - Phosphoric acid + N.B



Click to

Question # 5 of 10 (Start time: 11:23:41 AM, 05 June 2023)

_____ is used to convert superoxide radicals into molecular oxygen and hydrogen peroxide

Select the correct option



superoxide dismutase



All given



Hydrolase



Catalase

Click to Save Answer

Question # 6 of 10 (Start time: 11:24:15 AM, 05 June 2023)

The group of adjacent nucleotides are joined by _____

Select the correct option



Ionic bond



Peptide bond



Covalent bond



Phosphodiester bond



Click to Save A

Question # 7 of 10 (Start time: 11:25:39 AM, 05 June 2023)

RNA can base-pair with complementary regions of either

Select the correct option



Only DNA



Only mRNA



Only RNA



RNA or DNA

Click to Save

Question # 8 of 10 (Start time: 11:26:11 AM, 05 June 2023)

The overall three dimensional arrangement of all atoms in a protein is referred as

Select the correct option

☐

3D structure of protein

☐

Primary structure of protein

☐

Secondary structure of proteins

☒

Tertiary structure of protein

Click to Save Answer &

Question # 9 of 10 (Start time: 11:26:38 AM, 05 June 2023)

Which of the following purine bases is present in RNA?

Select the correct option

☐

Uracil

☒

Guanine

☐

Cytosine

☐

Thymine



Click to Save Answer

Which nucleotides are considered purines?

Select the correct option

☐

Cytosine & Thymine

☐

Cytosine & Guanine

☒

Adenine & Guanine

☐

Adenine & Thymine

Question # 1 of 10 (Start time: 03:50:07 PM, 05 June 2023)

Total Marks: 1

Avery performed his experiment to give evidence about DNA rather than protein is hereditary material in _____.

Select the correct option

☐

1925

☐

1928

☒

1944

☐

1952



Click to Save Answer & Move to Next Question

Question # 2 of 10 (Start time: 03:51:14 PM, 05 June 2023)

The helical twist of the α -helix found in all proteins is -----

Select the correct option



Zig -zag



Right-handed



Straight



Left-handed

Click to Save Ans

Question # 3 of 10 (Start time: 03:52:04 PM, 05 June 2023)

All DNA polymerase require a primer with a free...

Select the correct option

☐

4'-OH

☐

2'-OH

☒

3'-OH

☐

5'-OH

Click to Save Answer

Question # 4 of 10 (start time: 03:52:49 PM, 05 June 2023)

The bond angles in protein primary structure resulting from rotations at C are labelled (ψ) for the _____ bond.

Select the correct option



Alpha N - C



alpha C-O



N - alpha C



alpha C - C



Click to Save Answer & Move to

The repeating units in the nucleic acids are _____

Select the correct option

☐

Codons

☐

Amino acids

☐

Nucleosides

☒

Nucleotides

Question # 6 of 10 (Start time: 03:54:31 PM, 05 June 2023)

The first enzyme diastase was discovered by _____

Select the correct option



T.H. Morgan in 1910



Oswald Avery in 1944



Anselme Payen in 1833



Gregor Mendal in 1865

Click to Save

Question # 7 of 10 (Start time: 03:55:16 PM, 05 June 2023)

Griffith performed his experiment to give evidence about DNA rather than protein is hereditary material in _____.

Select the correct option



1944



1928



1925



1952

Click to Save Answer

Question # 8 of 10 (Start time: 03:55:57 PM, 05 June 2023)

About _____ of all amino acid residues in polypeptides are found in α -helices.

Select the correct option



Three fourth



One-fourth



Two fourth



Two-fifth

[Click to Save Answer & Mark](#)

Question # 9 of 10 (Start time: 03:56:22 PM, 05 June 2023)

The palm domain of DNA polymerase is composed of a _____ sheet and contains the primary elements of the catalytic site.

Select the correct option

☐

Gamma

☐

Alpha

☒

Beta

☐

Eta

Question # 10 of 10 (Start time: 03:56:56 PM, 05 June 2023)

A typical human cell contains about _____ million copies of each kind of histone.

Select the correct option



60



45



20



35

Question # 1 of 10 (Start time: 03:58:49 PM, 05 June 2023)

The binding of histones to phosphate group of a nucleotide is aided by ___ charged side chain of ____.

 Select the correct option

☐

Positive, Tryptophan

☒

Positive ,Arginine

☐

Positive, Phenylalanine

☐

Negative, Leucine

Question # 2 of 10 (Start time: 04:00:21 PM, 05 June 2023)

Which shows the correct complimentary base pairing of DNA?

Select the correct option

☐

C-A, T-G

☐

C-G, U-A

☐

A-G, C-T

☒

T-A, G-C

Click to Save Answer & Move

Question # 3 of 10 (Start time: 04:00:55 PM, 05 June 2023)

The nucleotide containing nitrogenous base cytosine is known as _____

Select the correct option



Deoxyguanosine



Deoxyguanylate



Deoxycytidine



Deoxycytidylate



Click to Save A

Question # 4 of 10 (Start time: 04:02:27 PM, 05 June 2023)

A nucleosome has about _____ nucleotides in eukaryotic genome.

Select the correct option



400



100



200



300

Question # 5 of 10 (Start time: 04:03:38 PM, 05 June 2023)

The percentage of nucleic acid in relation to protein is about _____ for the influenza virus.

Select the correct option



3%



2%



4%



1%

Click to Save Answer

Question # 6 of 10 (Start time: 04:04:23 PM, 05 June 2023)

CH₃ group is attached at ___ of thymine nitrogenous base.

 **Select the correct option**

N3

☐

N6

☐

C5

☒

C6

☐

Click to Save A

Question # 7 of 10 (**Start time: 04:05:29 PM, 05 June 2023**)

_____ is the nucleoside name of the nucleotide adenosine

Select the correct option



Deoxyadenosine



Deoxyadenylate



Deoxythymidine



Deoxythymidylate

Question # 8 of 10 (Start time: 04:06:14 PM, 05 June 2023)

Key substrates required for the synthesis of DNA to proceed are _____ and _____

 Select the correct option



Deoxynucleoside triphosphates - Primer



NADPH - Primer



Primer - template



E.coli - Bacteriophage

Question # 9 of 10 (Start time: 04:07:28 PM, 05 June 2023)

Total

_____ is used to convert superoxide radicals into molecular oxygen and hydrogen peroxide

Select the correct option



Catalase



superoxide dismutase



Hydrolase



All given

Click to Save Answer & Move to Next Question

Question # 10 of 10 (start time: 04:08:20 PM, 05 June 2023)

The two DNA strands in a double helix are joined by:

Select the correct option

 Reload M

☐	Covalent bond
☐	Ionic bond
☒	Hydrogen bond
☐	Phosphodiester bond

Click to Save Answer & Move to Next

Question # 1 of 10 (Start time: 07:08:36 PM, 05 June 2023)

Central dogma of molecular biology was laid in _____.

Select the correct option



1958



1957



1953



1955

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

Question # 3 of 10 (Start time: 07:09:39 PM, 05 June 2023)

Total Marks: 1

All DNA polymerase require a primer with a free...

select the correct option



5'-OH



3'-OH



2'-OH



4'-OH

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

Question # 4 of 10 (Start time: 07:10:04 PM, 05 June 2023)

Total Marks: 1

Which of the following is not a form of RNA?

Select the correct option

☐

tRNA

☐

mRNA

☐

rRNA

☒

qRNA

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

Question # 5 of 10 (Start time: 07:10:46 PM, 05 June 2023)

Total Marks

When Frederick Griffith coined the term "transformation," this was in reference to the genetic re-programming of

Select the correct option

☐

strains of bacteria

☐

laboratory mice

☒

patients with pneumonia

☐

bacteriophages



Click to Save Answer & Move to Next Question

Question # 6 of 10 (Start time: 07:12:10 PM, 05 June 2023)

Total Marks: 1

E. coli's chromosome consists of approx. _____ nucleotide pairs.

Select the correct option



4 Million



5 Billion



9 Billion



6 Million

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

Question # 8 of 10 (Start time: 07:14:10 PM, 05 June 2023)

Total Marks: 1

The bond between tRNA and amino acid is _____ bond.

Select the correct option

☐

Disulphide

☒

Covalent

☐

Co-ordinate covalent

☐

Ionic

Click to Save Answer & Move to Next Question

Question # 9 of 10 (Start time: 07:15:43 PM, 05 June 2023)

Urea was synthesized by Wohler in _____.

Select the correct option



1869



1833



1932



1828

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

Question # 10 of 10 (start time: 07:16:10 PM, 05 June 2023)

Total Marks: 1

The nucleotide containing nitrogenous base cytosine is known as _____

Select the correct option

 Reload Math Equations

Deoxycytidine



Deoxycytidylate



Deoxyguanosine



Deoxyguanylate

Click to Save Answer & Move to Next Question

Avery performed his experiment to give evidence about DNA rather than protein is hereditary material in _____.

Select the correct option

☒	1944
☐	1952
☐	1925
☐	1928

Click to Save Answer & Move to

Question # 2 of 10 (Start time: 11:18:14 PM, 05 June 2023)

The linkage between two amino acids removes a _____ molecule.

 Select the correct option



H₂O



CH₃



H₂O₂



CO₂

Click to Save Answer

Question # 3 of 10 (Start time: 11:19:53 PM, 05 June 2023)

A typical human cell contains about _____ million copies of each kind of histone.

Select the correct option



60



45



35



20

Question # 4 of 10 (Start time: 11:20:21 PM, 05 June 2023)

How many different types of amino acids are present?

Select the correct option

☐

19

☐

10

☒

20

☐

23

Question # 5 of 10 (**Start time: 11:20:36 PM, 05 June 2023**)

In 1910 Thomas Hunt Morgan proposed _____theory

Select the correct option



Chromosome



Gene



one gene/one enzyme



cell

Question # 6 of 10 (**Start time: 11:21:02 PM, 05 June 2023**)

_____ is the nucleoside name of the nucleotide adenosine

Select the correct option



Deoxythymidylate



Deoxythymidine



Deoxyadenosine



Deoxyadenylate

Click to Save Ans

Question # 7 of 10 (start time: 11:21:24 PM, 05 June 2023)

In a molecule of double-stranded DNA, the amount of Adenine present is always equal to the amount of

Select the correct option

☐

guanine

☐

Cytosine

☒

thymine

☐

uracil

Click to Save Answer & Move to

Question # 8 of 10 (Start time: 11:21:45 PM, 05 June 2023)

Amino acid attaches to ____ end of tRNA.

Select the correct option



2'



3'



5'



6'

[Click to Save Answer](#)

Question # 9 of 10 (Start time: 11:22:49 PM, 05 June 2023)

Total M

The junction between the newly separated template strands and the _____ dsDNA is known as the Replication Fork.

Select the correct option

☐

duplex

☐

replicated

☒

unreplicated

☐

adjunct

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

Question # 10 of 10 (Start time: 11:23:26 PM, 05 June 2023)

About _____ of all amino acid residues in polypeptides are found in α -helices.

Select the correct option

☐

Two-fifth

☐

Two fourth

☐

Three fourth

☒

One-fourth



Click to Save Answer &