VU Medical Zone

BIO 202 Quiz no 2 Fall 2020 Updated

BIO202:Quiz no. 3

Quiz Start Time: 12:27 AM, 23 February 2021

Question # 1 of 10 (Start time: 12:27:26 AM, 23 February 2021) **Total Marks: 1**

The DNA oligonucleotide abbreviated pATCGAC:

Select the correct option

- has seven phosphate groups.
- has a hydroxyl at its 3' end.
- has a phosphate on its 3' end.
- has an A at its 3' end.

Answer solved by Amaan Khan
Contact: 0305-4716616
Email: maniamaan2@gmail.com

Click to Save Answer & Move to Next Question



BIO202:Quiz no. 3

Quiz Start Time: 12:27 AM, 23 February 2021

Question # 2 of 10 (Start time: 12:29:52 AM, 23 February 2021) **Total Marks: 1**

In living cells, nucleotides and their derivatives can serve as:

Select the correct option

- carriers of metabolic energy.
- enzyme cofactors.
- intracellular signals.
- all of the above

Answer solved by Amaan Khan
Contact: 0305-4716616
Email: maniamaan2@gmail.com

Click to Save Answer & Move to Next Question



Effort By Amaan Khan

VU Medical Zone

BIO202:Quiz no. 3

Quiz Start Time: 12:27 AM, 23 February 2021

Question # 3 of 10 (Start time: 12:31:21 AM, 23 February 2021)

Total Marks: 1

S-adenosylmethionine is a ----------group donor

Select the correct option

- [x] Methyl

Answer solved by Amaan Khan
Contact: 0305-4716616
Email: maniamaan2@gmail.com

- [ ] Phosphate
- [ ] Adenosine
- [ ] Sulfate

Click to Save Answer & Move to Next Question



BIO202:Quiz no. 3

Quiz Start Time: 12:27 AM, 23 February 2021

Question # 4 of 10 (Start time: 12:32:01 AM, 23 February 2021)

Total Marks: 1

Which one is example of coenzymes

Select the correct option

- [ ] FAD
- [ ] NAD+
- [ ] NADP+
- [x] All

Answer solved by Amaan Khan
Contact: 0305-4716616
Email: maniamaan2@gmail.com

Click to Save Answer & Move to Next Question



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BIO202:Quiz no. 3

Quiz Start Time: 12:27 AM, 23 February 2021

Question # 5 of 10 (Start time: 12:32:32 AM, 23 February 2021)

Total Marks: 1

ATP is a

Select the correct option

- nucleoside
- nucleotide

Answer solved by Amaan Khan
Contact: 0305-4716616
Email: maniamaan2@gmail.com

- vitamin
- nucleic acid

Click to Save Answer & Move to Next Question



BIO202:Quiz no. 3

Quiz Start Time: 12:27 AM, 23 February 2021

Question # 6 of 10 (Start time: 12:32:45 AM, 23 February 2021)

Total Marks: 1

There are ------- classes of histones

Select the correct option

- 3
- 5

Answer solved by Amaan Khan
Contact: 0305-4716616
Email: maniamaan2@gmail.com

- 7
- 9

Click to Save Answer & Move to Next Question



Effort By Amaan Khan

VU Medical Zone

sec(s)

BIO202:Quiz no. 3

Quiz Start Time: 12:27 AM, 23 February 2021

Question # 7 of 10 (Start time: 12:33:58 AM, 23 February 2021)

Total Marks: 1

single-stranded DNA has a------ relative absorbance at 260nm wavelength than does double-stranded DNA.

Select the correct option

- lower
- higher

Answer solved by Amaan Khan
Contact: 0305-4716616
Email: maniamaan2@gmail.com

- equal
- none

Click to Save Answer & Move to Next Question



sec(s)

BIO202:Quiz no. 3

Quiz Start Time: 12:27 AM, 23 February 2021

Question # 8 of 10 (Start time: 12:35:24 AM, 23 February 2021)

Total Marks: 1

Separation of the two strands of the double helix when ---------- bonds between the paired bases are disrupted.

Select the correct option

- phosphodiester
- hydrogen

Answer solved by Amaan Khan
Contact: 0305-4716616
Email: maniamaan2@gmail.com

- glycosilic bond
- none of the avove

Click to Save Answer & Move to Next Question



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sec(s)

BIO202:Quiz no. 3 Quiz Start Time: 12:27 AM, 23 February 2021

Question # 9 of 10 (Start time: 12:35:56 AM, 23 February 2021) **Total Marks: 1**

Find the correct statement about phosphodiester linkage between adjacent nucleotides in nucleic acids

Select the correct option

- 3'-phosphate of one nucleotide joins the 3'-hydroxyl of the next nucleotide
- 3'-phosphate of one nucleotide joins the 5'-hydroxyl of the next nucleotide
- 5'-phosphate of one nucleotide joins the 5'-hydroxyl of the next nucleotide
- [x] 5'-phosphate of one nucleotide joins the 3'-hydroxyl of the next nucleotide

Answer solved by Amaan Khan
Contact: 0305-4716616
Email: maniamaan2@gmail.com

Click to Save Answer & Move to Next Question



sec(s)

BIO202:Quiz no. 3 Quiz Start Time: 12:27 AM, 23 February 2021

Question # 10 of 10 (Start time: 12:37:36 AM, 23 February 2021) **Total Marks: 1**

According to Chargaff's Rules
which one is not correct

Select the correct option

- adenine equals the amount of thymine.
- guanine equals the amount of cytosine
- total amount of purines equals the total amount of pyrimidines
- [x] guanine equals the amount of thymine

Answer solved by Amaan Khan
Contact: 0305-4716616
Email: maniamaan2@gmail.com

Click to Save Answer & Move to Next Question



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BIO202:Quiz no. 3

Quiz Start Time: 12:45 AM, 23 February 2021

Question # 1 of 10 (Start time: 12:45:43 AM, 23 February 2021) **Total Marks: 1**

higher GC base pairs increases Tm, because , with three hydrogen bonds, require---------heat energy to dissociate than AT base pairs.

Select the correct option

- less
- more

Answer solved by Amaan Khan
Contact: 0305-4716616
Email: maniamaan2@gmail.com

- equal
- none of the above

Click to Save Answer & Move to Next Question

BIO202:Quiz no. 3

Quiz Start Time: 12:45 AM, 23 February 2021

Question # 2 of 10 (Start time: 12:46:25 AM, 23 February 2021) **Total Marks: 1**

Chromatin is composed of

Select the correct option

- nucleic acids and protein

Answer solved by Amaan Khan
Contact: 0305-4716616
Email: maniamaan2@gmail.com

- nucleic acids only
- proteins only
- none of these

Click to Save Answer & Move to Next Question

Effort By Amaan Khan

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BIO202:Quiz no. 3

Quiz Start Time: 12:45 AM, 23 February 2021

Question # 3 of 10 (Start time: 12:46:56 AM, 23 February 2021)

Total Marks: 1

Which one is example of coenzymes

Select the correct option

- FAD
- NAD+
- NADP+
- All

Answer solved by Amaan Khan
Contact: 0305-4716616
Email: maniamaan2@gmail.com

Click to Save Answer & Move to Next Question



BIO202:Quiz no. 3

Quiz Start Time: 12:45 AM, 23 February 2021

Question # 4 of 10 (Start time: 12:47:06 AM, 23 February 2021)

Total Marks: 1

The sugar molecule present in nucleotide is

Select the correct option

- Triose
- Tetrose
- Pentose

Answer solved by Amaan Khan
Contact: 0305-4716616
Email: maniamaan2@gmail.com

- Hexose

Click to Save Answer & Move to Next Question



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BIO202:Quiz no. 3

Quiz Start Time: 12:45 AM, 23 February 2021

Question # 5 of 10 (Start time: 12:47:18 AM, 23 February 2021)

Total Marks: 1

Eukaryotic DNA is associated with tightly bound basic ----------, called histones.

Select the correct option

- lipid
- proteins

Answer solved by Amaan Khan
Contact: 0305-4716616
Email: maniamaan2@gmail.com

- carbohydrates
- nucleic acid

Click to Save Answer & Move to Next Question



BIO202:Quiz no. 3

Quiz Start Time: 12:45 AM, 23 February 2021

Question # 6 of 10 (Start time: 12:47:48 AM, 23 February 2021)

Total Marks: 1

When DNA is heated, the temperature at which ---------- of the helical structure is lost is defined as the melting temperature.

Select the correct option

- one half

Answer solved by Amaan Khan
Contact: 0305-4716616
Email: maniamaan2@gmail.com

- two half
- three half
- complete

Click to Save Answer & Move to Next Question



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sec(s)

BIO202:Quiz no. 3 Quiz Start Time: 12:45 AM, 23 February 2021

Question # 7 of 10 (Start time: 12:48:15 AM, 23 February 2021) Total Marks: 1

Z-DNA have a

Select the correct option

- [x] Zig-Zag apperarance

Answer solved by Amaan Khan
Contact: 0305-4716616
Email: maniamaan2@gmail.com

- [ ] Double helical nature
- [ ] uracil base
- [ ] single stranded nature

Click to Save Answer & Move to Next Question



sec(s)

BIO202:Quiz no. 3 Quiz Start Time: 12:45 AM, 23 February 2021

Question # 8 of 10 (Start time: 12:49:04 AM, 23 February 2021) Total Marks: 1

Separation of the two strands of the double helix when ---------- bonds between the paired bases are disrupted.

Select the correct option

- [ ] phosphodiester
- [x] hydrogen

Answer solved by Amaan Khan
Contact: 0305-4716616
Email: maniamaan2@gmail.com

- [ ] glycosilic bond
- [ ] none of the avove

Click to Save Answer & Move to Next Question



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sec(s)

BIO202:Quiz no. 3 Quiz Start Time: 12:45 AM, 23 February 2021

Question # 9 of 10 (Start time: 12:49:15 AM, 23 February 2021) Total Marks: 1

RNA duplexes are --------- stable than DNA duplexes.

Select the correct option

- [x] more
- [ ] less
- [ ] equal
- [ ] none of the above

Answer solved by Amaan Khan
Contact: 0305-4716616
Email: maniamaan2@gmail.com

Click to Save Answer & Move to Next Question



sec(s)

BIO202:Quiz no. 3 Quiz Start Time: 12:45 AM, 23 February 2021

Question # 10 of 10 (Start time: 12:49:41 AM, 23 February 2021) Total Marks: 1

The ----------strand is called Template strand while

Select the correct option

- [ ] 5′-3
- [x] 3′-5
- [ ] 3′-3
- [ ] 5′-5

Answer solved by Amaan Khan
Contact: 0305-4716616
Email: maniamaan2@gmail.com

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sec(s)

BIO202:Quiz no. 3

Quiz Start Time: 12:54 AM, 23 February 2021

Question # 1 of 10 (Start time: 12:54:07 AM, 23 February 2021)

Total Marks: 1

DNA replication is

Select the correct option

- Conservative
- Non-conservative
- Semi-conservative

Answer solved by Amaan Khan
Contact: 0305-4716616
Email: maniamaan2@gmail.com

- None

Click to Save Answer & Move to Next Question



sec(s)

BIO202:Quiz no. 3

Quiz Start Time: 12:54 AM, 23 February 2021

Question # 2 of 10 (Start time: 12:55:38 AM, 23 February 2021)

Total Marks: 1

Nucleotides are composed of

Select the correct option

- A nitrogenous base (purine or pyrimidine)
- A pentose monosaccharide
- One, two, or three phosphate groups
- All

Answer solved by Amaan Khan
Contact: 0305-4716616
Email: maniamaan2@gmail.com

Click to Save Answer & Move to Next Question



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BIO202:Quiz no. 3

Quiz Start Time: 12:54 AM, 23 February 2021

Question # 3 of 10 (Start time: 12:55:55 AM, 23 February 2021) **Total Marks: 1**

Eukaryotic DNA is associated with tightly bound basic ----------, called histones.

Select the correct option

- lipid
- proteins

Answer solved by Amaan Khan
Contact: 0305-4716616
Email: maniamaan2@gmail.com

- carbohydrates
- nucleic acid

Click to Save Answer & Move to Next Question



BIO202:Quiz no. 3

Quiz Start Time: 12:54 AM, 23 February 2021

Question # 4 of 10 (Start time: 12:56:04 AM, 23 February 2021) **Total Marks: 1**

According to Chargaff's Rules
which one is not correct

Select the correct option

- adenine equals the amount of thymine.
- guanine equals the amount of cytosine
- total amount of purines equals the total amount of pyrimidines
- guanine equals the amount of thymine

Answer solved by Amaan Khan
Contact: 0305-4716616
Email: maniamaan2@gmail.com

Click to Save Answer & Move to Next Question



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BIO202:Quiz no. 3

Quiz Start Time: 12:54 AM, 23 February 2021

Question # 5 of 10 (Start time: 12:56:14 AM, 23 February 2021) **Total Marks: 1**

Nucleosomes can be packed more tightly to form a polynucleosome also called a nucleofilament or a ------nm fiber.

Select the correct option

- 10
- 30 **Answer solved by Amaan Khan**
  Contact: 0305-4716616
  Email: maniamaan2@gmail.com
- 50
- 100

Click to Save Answer & Move to Next Question



BIO202:Quiz no. 3

Quiz Start Time: 12:54 AM, 23 February 2021

Question # 6 of 10 (Start time: 12:56:39 AM, 23 February 2021) **Total Marks: 1**

Nucleoside contains

Select the correct option

- base-sugar **Answer solved by Amaan Khan**
  Contact: 0305-4716616
  Email: maniamaan2@gmail.com
- base-phosphate
- base-sugar-phosphate
- sugar-phosphate

Click to Save Answer & Move to Next Question



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BIO202:Quiz no. 3

Quiz Start Time: 12:54 AM, 23 February 2021

Question # 7 of 10 (Start time: 12:56:55 AM, 23 February 2021) **Total Marks: 1**

The difference between thymine and uracil is:

Select the correct option

- one methylene group on the pyrimidine ring
- one methyl group on the pyrimidine ring.
- one hydroxyl group on the ribose ring.
- one amine group on the pyrimidine ring.

Answer solved by Amaan Khan
Contact: 0305-4716616
Email: maniamaan2@gmail.com

Click to Save Answer & Move to Next Question

Quiz - Google Chr...
12:58 AM
2/23/2021

BIO202:Quiz no. 3

Quiz Start Time: 12:54 AM, 23 February 2021

Question # 8 of 10 (Start time: 12:58:52 AM, 23 February 2021) **Total Marks: 1**

In a double-stranded nucleic acid, cytosine typically base-pairs with:

Select the correct option

- Adenosine.
- Guanine.
- Inosine.
- Thymine.

Answer solved by Amaan Khan
Contact: 0305-4716616
Email: maniamaan2@gmail.com

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12:59 AM
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BIO202:Quiz no. 3

Quiz Start Time: 12:54 AM, 23 February 2021

Question # 9 of 10 (Start time: 12:59:13 AM, 23 February 2021)

Total Marks: 1

When DNA is heated, the temperature at which ---------- of the helical structure is lost is defined as the melting temperature.

Select the correct option

- [x] one half

Answer solved by Amaan Khan
Contact: 0305-4716616
Email: maniamaan2@gmail.com

- [ ] two half
- [ ] three half
- [ ] complete

Click to Save Answer & Move to Next Question



sec(s)

BIO202:Quiz no. 3

Quiz Start Time: 12:54 AM, 23 February 2021

Question # 10 of 10 (Start time: 12:59:24 AM, 23 February 2021)

Total Marks: 1

RNA duplexes are --------- stable than DNA duplexes.

Select the correct option

- [x] more

Answer solved by Amaan Khan
Contact: 0305-4716616
Email: maniamaan2@gmail.com

- [ ] less
- [ ] equal
- [ ] none of the above

Click to Save Answer & Move to Next Question



Effort By Amaan Khan

VU Medical Zone

BIO202:Quiz no. 3

Quiz Start Time: 01:30 AM, 23 February 2021

Question # 1 of 10 (Start time: 01:30:41 AM, 23 February 2021)

Total Marks: 1

Disruption of DNA can occur in the laboratory with alteration in

Select the correct option

- PH
- salt concentration
- heated above 80°C
- [x] All of the above

Answer solved by Amaan Khan
Contact: 0305-4716616
Email: maniamaan2@gmail.com

Click to Save Answer & Move to Next Question



BIO202:Quiz no. 3

Quiz Start Time: 01:30 AM, 23 February 2021

Question # 2 of 10 (Start time: 01:31:26 AM, 23 February 2021)

Total Marks: 1

Any regular, stable structure taken up by some or all of the nucleotides in a nucleic acid can be referred to as

Select the correct option

- primary structure
- [x] secondary structure

Answer solved by Amaan Khan
Contact: 0305-4716616
Email: maniamaan2@gmail.com

- tertiary structure
- all of above

Click to Save Answer & Move to Next Question



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BIO202:Quiz no. 3

Quiz Start Time: 01:30 AM, 23 February 2021

Question # 3 of 10 (Start time: 01:31:58 AM, 23 February 2021) **Total Marks: 1**

Nucleic acids are a polymer of nucleotide monomeric units. Each nucleotide consists of

Select the correct option

- base--sugar--OH
- sugar--phosphate
- base--sugar--phosphate

Answer solved by Amaan Khan
Contact: 0305-4716616
Email: maniamaan2@gmail.com

- sugar--OH

Click to Save Answer & Move to Next Question

BIO202:Quiz no. 3

Quiz Start Time: 01:30 AM, 23 February 2021

Question # 4 of 10 (Start time: 01:32:15 AM, 23 February 2021) **Total Marks: 1**

The DNA wrapped around the nucleosome core is continuous and joins one nucleosome core to the next -the linker DNA
this 50 bp DNA is complexed with the fifth type of histone, ----------

Select the correct option

- H1

Answer solved by Amaan Khan
Contact: 0305-4716616
Email: maniamaan2@gmail.com

- H2A, H2B,
- H3,
- H4

Click to Save Answer & Move to Next Question

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sec(s)

BIO202:Quiz no. 3

Quiz Start Time: 01:30 AM, 23 February 2021

Question # 5 of 10 (Start time: 01:32:48 AM, 23 February 2021)

Total Marks: 1

The phosphodiester bonds that link adjacent nucleotides in both RNA and DNA:

Select the correct option

- always link A with T and G with C.
- are susceptible to alkaline hydrolysis.
- form between the planar rings of adjacent bases.
- join the 3' hydroxyl of one nucleotide to the 5' hydroxyl of the next.

Answer solved by Amaan Khan
Contact: 0305-4716616
Email: maniamaan2@gmail.com

Click to Save Answer & Move to Next Question



sec(s)

BIO202:Quiz no. 3

Quiz Start Time: 01:30 AM, 23 February 2021

Question # 6 of 10 (Start time: 01:34:35 AM, 23 February 2021)

Total Marks: 1

DNA that is not copied during the synthesis of mRNA is also called as

Select the correct option

- Non Template
- coding strand
- mRNA-like strand
- all of above

Answer solved by Amaan Khan
Contact: 0305-4716616
Email: maniamaan2@gmail.com

Click to Save Answer & Move to Next Question



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BIO202:Quiz no. 3

Quiz Start Time: 01:30 AM, 23 February 2021

Question # 7 of 10 (Start time: 01:35:37 AM, 23 February 2021)

Total Marks: 1

higher GC base pairs increases Tm, because , with three hydrogen bonds, require---------heat energy to dissociate than AT base pairs.

Select the correct option

- less
- more

Answer solved by Amaan Khan
Contact: 0305-4716616
Email: maniamaan2@gmail.com

- equal
- none of the above

Click to Save Answer & Move to Next Question



BIO202:Quiz no. 3

Quiz Start Time: 01:30 AM, 23 February 2021

Question # 8 of 10 (Start time: 01:35:58 AM, 23 February 2021)

Total Marks: 1

The sugar molecule present in nucleotide is

Select the correct option

- Triose
- Tetrose
- Pentose

Answer solved by Amaan Khan
Contact: 0305-4716616
Email: maniamaan2@gmail.com

- Hexose

Click to Save Answer & Move to Next Question



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BIO202:Quiz no. 3

Quiz Start Time: 01:30 AM, 23 February 2021

Question # 9 of 10 (Start time: 01:36:17 AM, 23 February 2021)

Total Marks: 1

ATP is a

Select the correct option

- nucleoside
- nucleotide

Answer solved by Amaan Khan
Contact: 0305-4716616
Email: maniamaan2@gmail.com

- vitamin
- nucleic acid

Click to Save Answer & Move to Next Question



Time Left sec(s)

BIO202:Quiz no. 3

Quiz Start Time: 01:30 AM, 23 February 2021

Question # 10 of 10 (Start time: 01:36:33 AM, 23 February 2021)

Total Marks: 1

The Tm of DNA is influenced by

Select the correct option

- higher the content of GC base pairs
- base composition of the DNA
- salt concentration of the solution
- all of above

Answer solved by Amaan Khan
Contact: 0305-4716616
Email: maniamaan2@gmail.com

Click to Save Answer & Move to Next Question



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BIO202:Quiz no. 3

Quiz Start Time: 01:49 AM, 23 February 2021

Question # 1 of 10 (Start time: 01:49:27 AM, 23 February 2021) **Total Marks: 1**

Purine base found in RNA is

Select the correct option

- Cytosine
- Thymine
- [x] Guanine

Answer solved by Amaan Khan
Contact: 0305-4716616
Email: maniamaan2@gmail.com

- Uracil

Click to Save Answer & Move to Next Question

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BIO202:Quiz no. 3

Quiz Start Time: 01:49 AM, 23 February 2021

Question # 2 of 10 (Start time: 01:50:15 AM, 23 February 2021) **Total Marks: 1**

Compounds that generate nitrous acid (such as nitrites, nitrates, and nitrosamines) change DNA molecules by:

Select the correct option

- [x] Breakage of phosphodiester bonds.

Answer solved by Amaan Khan
Contact: 0305-4716616
Email: maniamaan2@gmail.com

- Deamination of bases.
- Depurination.
- Formation of thymine dimers

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VU Medical Zone

BIO202:Quiz no. 3

Quiz Start Time: 01:49 AM, 23 February 2021

Question # 3 of 10 (Start time: 01:51:18 AM, 23 February 2021)

Total Marks: 1

Under appropriate conditions DNA will form a hybrid with a complementary ----------

Select the correct option

- DNA
- RNA
- Both

Answer solved by Amaan Khan
Contact: 0305-4716616
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- None

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BIO202:Quiz no. 3

Quiz Start Time: 01:49 AM, 23 February 2021

Question # 4 of 10 (Start time: 01:51:51 AM, 23 February 2021)

Total Marks: 1

DNA model was presented by Watson and Crick in ----------

Select the correct option

- 1951
- 1953

Answer solved by Amaan Khan
Contact: 0305-4716616
Email: maniamaan2@gmail.com

- 1955
- 1957

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VU Medical Zone

sec(s)

BIO202:Quiz no. 3

Quiz Start Time: 01:49 AM, 23 February 2021

Question # 5 of 10 (Start time: 01:52:09 AM, 23 February 2021) **Total Marks: 1**

Around structural core of the nucleosome., a segment of the DNA double helix is wound nearly twice-approximately ---------

Select the correct option

- ○ 100bp
- ○ 120bp
- ◉ 140bp

Answer solved by Amaan Khan
Contact: 0305-4716616
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- ○ 160bp

Click to Save Answer & Move to Next Question



sec(s)

BIO202:Quiz no. 3

Quiz Start Time: 01:49 AM, 23 February 2021

Question # 6 of 10 (Start time: 01:52:38 AM, 23 February 2021) **Total Marks: 1**

In living cells, nucleotides and their derivatives can serve as:

Select the correct option

- ○ carriers of metabolic energy.
- ○ enzyme cofactors.
- ○ intracellular signals.
- ◉ all of the above

Answer solved by Amaan Khan
Contact: 0305-4716616
Email: maniamaan2@gmail.com

Click to Save Answer & Move to Next Question



Effort By Amaan Khan

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BIO202:Quiz no. 3

Quiz Start Time: 01:49 AM, 23 February 2021

Question # 7 of 10 (Start time: 01:52:54 AM, 23 February 2021) **Total Marks: 1**

Adenosine 3'-phosphate-5'-phosphosulfate is the ----------donor

Select the correct option

- [x] Sulfate

Answer solved by Amaan Khan
Contact: 0305-4716616
Email: maniamaan2@gmail.com

- [ ] Phosphate
- [ ] Adenosine
- [ ] None

Click to Save Answer & Move to Next Question



BIO202:Quiz no. 3

Quiz Start Time: 01:49 AM, 23 February 2021

Question # 8 of 10 (Start time: 01:53:29 AM, 23 February 2021) **Total Marks: 1**

Nucleotides are composed of

Select the correct option

- [ ] A nitrogenous base (purine or pyrimidine)
- [ ] A pentose monosaccharide
- [ ] One, two, or three phosphate groups
- [x] All

Answer solved by Amaan Khan
Contact: 0305-4716616
Email: maniamaan2@gmail.com

Click to Save Answer & Move to Next Question



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sec(s)

BIO202:Quiz no. 3

Quiz Start Time: 01:49 AM, 23 February 2021

Question # 9 of 10 (Start time: 01:53:58 AM, 23 February 2021)

Total Marks: 1

A short length of DNA molecule has 80 thymine and 80 guanine bases. The total number of nucleotide in the DNA fragment is

Select the correct option

- 160
- 40
- 320 ✓

Answer solved by Amaan Khan
Contact: 0305-4716616
Email: maniamaan2@gmail.com

- 640

Click to Save Answer & Move to Next Question



sec(s)

BIO202:Quiz no. 3

Quiz Start Time: 01:49 AM, 23 February 2021

Question # 10 of 10 (Start time: 01:54:36 AM, 23 February 2021)

Total Marks: 1

Which of the following is a palindromic sequence?

Select the correct option

- AGGTCC
TCCAGG
- CCTTCC
GCAAGG
- GAATCC
CTTAGG
- GGATCC
CCTAGG ✓

Answer solved by Amaan Khan
Contact: 0305-4716616
Email: maniamaan2@gmail.com

Click to Save Answer & Move to Next Question



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BIO202:Quiz no. 3

Quiz Start Time: 12:11 PM, 23 February 2021

Question # 1 of 10 (Start time: 12:11:08 PM, 23 February 2021) **Total Marks: 1**

The complex folding of large chromosomes within eukaryotic chromatin and bacterial nucleoids is generally considered ----------

Select the correct option

- primary structure
- secondary structure
- tertiary structure

Answer solved by Amaan Khan
Contact: 0305-4716616
Email: maniamaan2@gmail.com

- all of the above

Click to Save Answer & Move to Next Question



BIO202:Quiz no. 3

Quiz Start Time: 12:11 PM, 23 February 2021

Question # 2 of 10 (Start time: 12:11:40 PM, 23 February 2021) **Total Marks: 1**

Certain anticancer drugs, exert their cytotoxic effect by intercalating into the ---------- groove of the DNA double helix, thus interfering with RNA and DNA synthesis

Select the correct option

- narrow

Answer solved by Amaan Khan
Contact: 0305-4716616
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- major
- phosphate backbone
- bases

Click to Save Answer & Move to Next Question



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BIO202:Quiz no. 3

Quiz Start Time: 12:11 PM, 23 February 2021

Question # 3 of 10 (Start time: 12:12:14 PM, 23 February 2021) **Total Marks: 1**

When linked to vitamins nucleotides are structural components of several essential coenzymes, for example,

Select the correct option

- (●) coenzyme A

Answer solved by Amaan Khan
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- ( ) coenzyme B
- ( ) coenzyme C
- ( ) coenzyme D

Click to Save Answer & Move to Next Question



BIO202:Quiz no. 3

Quiz Start Time: 12:11 PM, 23 February 2021

Question # 4 of 10 (Start time: 12:12:24 PM, 23 February 2021) **Total Marks: 1**

The "energy carrier" ATP is an example of a(n):

Select the correct option

- (●) deoxyribonucleoside triphosphate

Answer solved by Amaan Khan
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- ( ) di-nucleotide
- ( ) ribonucleotide
- ( ) ribonucleoside triphosphate

Click to Save Answer & Move to Next Question



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sec(s)

BIO202:Quiz no. 3

Quiz Start Time: 12:11 PM, 23 February 2021

Question # 5 of 10 (Start time: 12:13:50 PM, 23 February 2021)

Total Marks: 1

The ----------strand is called Template strand while

Select the correct option

- 5′-3
- 3′-5 (selected)
- 3′-3
- 5′-5

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Email: maniamaan2@gmail.com

Click to Save Answer & Move to Next Question



sec(s)

BIO202:Quiz no. 3

Quiz Start Time: 12:11 PM, 23 February 2021

Question # 6 of 10 (Start time: 12:14:25 PM, 23 February 2021)

Total Marks: 1

Nucleotides also serve as carriers of activated intermediates in the synthesis of ----------

Select the correct option

- Carbohydrates
- Lipids
- Proteins
- All (selected)

Answer solved by Amaan Khan
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BIO202:Quiz no. 3

Quiz Start Time: 12:11 PM, 23 February 2021

Question # 7 of 10 (Start time: 12:14:49 PM, 23 February 2021) **Total Marks: 1**

These---------- bonds, plus the van der Waals and hydrophobic interactions between the adjacent stacked bases, stabilize the structure of the double helix.

Select the correct option

- phosphodiester
- nitrogen
- hydrogen

Answer solved by Amaan Khan
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- none of the above

Click to Save Answer & Move to Next Question



BIO202:Quiz no. 3

Quiz Start Time: 12:11 PM, 23 February 2021

Question # 8 of 10 (Start time: 12:15:25 PM, 23 February 2021) **Total Marks: 1**

The DNA oligonucleotide abbreviated pATCGAC:

Select the correct option

- has seven phosphate groups.
- has a hydroxyl at its 3' end.

Answer solved by Amaan Khan
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- has a phosphate on its 3' end.
- has an A at its 3' end.

Click to Save Answer & Move to Next Question



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BIO202:Quiz no. 3

Quiz Start Time: 12:11 PM, 23 February 2021

Question # 9 of 10 (Start time: 12:15:42 PM, 23 February 2021)

Total Marks: 1

ATP is a

Select the correct option

- nucleoside
- nucleotide

Answer solved by Amaan Khan
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- vitamin
- nucleic acid

Click to Save Answer & Move to Next Question



BIO202:Quiz no. 3

Quiz Start Time: 12:11 PM, 23 February 2021

Question # 10 of 10 (Start time: 12:15:52 PM, 23 February 2021)

Total Marks: 1

histones are -------- charged

Select the correct option

- positively

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- negatively
- neutral
- none of the above

Click to Save Answer & Move to Next Question



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BIO202:Quiz no. 3

Quiz Start Time: 12:05 PM, 23 February 2021

Question # 1 of 10 (Start time: 12:05:04 PM, 23 February 2021) **Total Marks: 1**

When linked to vitamins nucleotides are structural components of several essential coenzymes, for example,

Select the correct option

- (●) coenzyme A

Answer solved by Amaan Khan
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- ( ) coenzyme B
- ( ) coenzyme C
- ( ) coenzyme D

Click to Save Answer & Move to Next Question



BIO202:Quiz no. 3

Quiz Start Time: 12:05 PM, 23 February 2021

Question # 2 of 10 (Start time: 12:05:48 PM, 23 February 2021) **Total Marks: 1**

In living cells, nucleotides and their derivatives can serve as:

Select the correct option

- ( ) carriers of metabolic energy.
- ( ) enzyme cofactors.
- ( ) intracellular signals.
- (■) all of the above

Answer solved by Amaan Khan
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Email: maniamaan2@gmail.com

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BIO202:Quiz no. 3

Quiz Start Time: 12:05 PM, 23 February 2021

Question # 3 of 10 (Start time: 12:06:00 PM, 23 February 2021)

Total Marks: 1

A phosphodiester bond is present in

Select the correct option

- [x] Nucleic acids in a nucleotide

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- [ ] Monosaccharides in a polysaccharide
- [ ] Amino acids in a polypeptide
- [ ] Fatty acids in a diglyceride

Click to Save Answer & Move to Next Question

BIO202:Quiz no. 3

Quiz Start Time: 12:05 PM, 23 February 2021

Question # 4 of 10 (Start time: 12:06:14 PM, 23 February 2021)

Total Marks: 1

Which one is example of coenzymes

Select the correct option

- [ ] FAD
- [ ] NAD+
- [ ] NADP+
- [x] All

Answer solved by Amaan Khan
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Email: maniamaan2@gmail.com

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BIO202:Quiz no. 3

Quiz Start Time: 12:05 PM, 23 February 2021

Question # 5 of 10 (Start time: 12:07:05 PM, 23 February 2021) **Total Marks: 1**

Compounds that generate nitrous acid (such as nitrites, nitrates, and nitrosamines) change DNA molecules by:

Select the correct option

- [x] Breakage of phosphodiester bonds.
- [ ] Deamination of bases.
- [ ] Depurination.
- [ ] Formation of thymine dimers

Answer solved by Amaan Khan
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Click to Save Answer & Move to Next Question



BIO202:Quiz no. 3

Quiz Start Time: 12:05 PM, 23 February 2021

Question # 6 of 10 (Start time: 12:07:44 PM, 23 February 2021) **Total Marks: 1**

In a double-stranded nucleic acid, cytosine typically base-pairs with:

Select the correct option

- [ ] Adenosine.
- [x] Guanine.
- [ ] Inosine.
- [ ] Thymine.

Answer solved by Amaan Khan
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Email: maniamaan2@gmail.com

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BIO202:Quiz no. 3

Quiz Start Time: 12:05 PM, 23 February 2021

Question # 7 of 10 (Start time: 12:07:59 PM, 23 February 2021)

Total Marks: 1

Nucleic acids are a polymer of nucleotide monomeric units. Each nucleotide consists of

Select the correct option

- base–sugar–OH
- sugar–phosphate
- base–sugar–phosphate

Answer solved by Amaan Khan
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- sugar–OH

Click to Save Answer & Move to Next Question



BIO202:Quiz no. 3

Quiz Start Time: 12:05 PM, 23 February 2021

Question # 8 of 10 (Start time: 12:08:13 PM, 23 February 2021)

Total Marks: 1

Which one of the following is true of the pentoses found in nucleic acids?

Select the correct option

- C-5 and C-1 of the pentose are joined to phosphate groups.
- The bond that joins nitrogenous bases to pentoses is an O-glycosidic bond.
- The pentoses are always in the β-furanose forms.

Answer solved by Amaan Khan
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- The straight-chain and ring forms undergo constant interconversion.

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BIO202:Quiz no. 3

Quiz Start Time: 12:05 PM, 23 February 2021

Question # 9 of 10 (Start time: 12:09:26 PM, 23 February 2021) **Total Marks: 1**

A DNA segment contains 100 Adenine and 100 cytosines, how many nucleotides are present in the segment?

Select the correct option

- 50
- 100
- 200 **Answer solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com**
- 400

Click to Save Answer & Move to Next Question



BIO202:Quiz no. 3

Quiz Start Time: 12:05 PM, 23 February 2021

Question # 10 of 10 (Start time: 12:10:05 PM, 23 February 2021) **Total Marks: 1**

The DNA wrapped around the nucleosome core is continuous and joins one nucleosome core to the next -the linker DNA
this 50 bp DNA is complexed with the fifth type of histone. ----------

Select the correct option

- H1 **Answer solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com**
- H2A, H2B,
- H3,
- H4

Click to Save Answer & Move to Next Question



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