

**QUIZ 2**  
**FALL 21**

**Z00505**

**VU HELPZONE**

**GROU OF  
ZOOLOGISTA**



**MARCH 2**  
**DUE DATE**  
**2022**

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## ZOO505 – Cell and Molecular Biology (Quiz 2)

Question # 7 of 10 ( **Start time: 02:33:01 AM, 01 March 2022** )

Early E complex is an arrangement of -----.

Select the correct option

|                                  |                       |
|----------------------------------|-----------------------|
| <input type="radio"/>            | RNA and proteins      |
| <input type="radio"/>            | DNA and RNA           |
| <input type="radio"/>            | DNA and proteins      |
| <input checked="" type="radio"/> | Proteins and proteins |

## ZOO505 - Cell and Molecular Biology (Quiz 2)

Question # 2 of 10 ( **Start time: 02:31:56 AM, 01 March 2022** )

Xrn2 is a RNAase present in \_\_\_\_.

Select the correct option

|                                  |         |
|----------------------------------|---------|
| <input type="radio"/>            | animals |
| <input type="radio"/>            | yeast   |
| <input checked="" type="radio"/> | humans  |
| <input type="radio"/>            | fungi   |

## ZOO505 - Cell and Molecular Biology (Quiz 2)

Question # 10 of 10 ( Start time: 12:45:20 AM, 01 March 2022 )

Rat1 is an RNAase found in \_\_\_\_\_.

Select the correct option

|                                  |         |
|----------------------------------|---------|
| <input checked="" type="radio"/> | yeast   |
| <input type="radio"/>            | algae   |
| <input type="radio"/>            | animals |
| <input type="radio"/>            | fungi   |

## ZOO505 – Cell and Molecular Biology (Quiz 2)

Question # 9 of 10 ( **Start time: 12:44:10 AM, 01 March 2022** )

3 prime tail and 5 prime cap in mRNA is good because it protects RNA from rapid \_\_\_\_\_ .

Select the correct option

|                                  |             |
|----------------------------------|-------------|
| <input type="radio"/>            | metabolism  |
| <input type="radio"/>            | methylation |
| <input type="radio"/>            | acetylation |
| <input checked="" type="radio"/> | degradation |

## ZOO505 - Cell and Molecular Biology (Quiz 2)

Question # 8 of 10 ( **Start time: 12:43:28 AM, 01 March 2022** )

Which one is not an unusual base found in tRNA?

Select the correct option

|                                  |               |
|----------------------------------|---------------|
| <input type="radio"/>            | hypoxanthine  |
| <input type="radio"/>            | methylguanine |
| <input type="radio"/>            | thymine       |
| <input checked="" type="radio"/> | cytidine      |

## ZOO505 - Cell and Molecular Biology (Quiz 2)

Question # 7 of 10 ( Start time: 12:42:35 AM, 01 March 2022 )

Which type of RNA is used to be transcribed by Pol I.

Select the correct option

|                                  |                  |
|----------------------------------|------------------|
| <input checked="" type="radio"/> | rRNA             |
| <input type="radio"/>            | mRNA             |
| <input type="radio"/>            | all of the above |
| <input type="radio"/>            | tRNA             |

Click to

## ZOO505 - Cell and Molecular Biology (Quiz 2)

Question # 6 of 10 ( **Start time: 12:42:21 AM, 01 March 2022** )

AUG is a \_\_\_\_\_ codon.

Select the correct option

|                                  |             |
|----------------------------------|-------------|
| <input type="radio"/>            | terminator  |
| <input type="radio"/>            | stop        |
| <input type="radio"/>            | replicating |
| <input checked="" type="radio"/> | start       |

Click



## ZOO505 - Cell and Molecular Biology (Quiz 2)

Question # 5 of 10 ( Start time: 12:42:08 AM, 01 March 2022 )

What is the meaning of aberrant splicing?

Select the correct option

|                                  |                   |
|----------------------------------|-------------------|
| <input type="radio"/>            | normal splicing   |
| <input type="radio"/>            | correct splicing  |
| <input type="radio"/>            | accurate splicing |
| <input checked="" type="radio"/> | wrong splicing    |

Click to

**Question # 4 of 10 ( Start time: 12:41:06 AM, 01 March 2022 )**

In eukaryotes, introns are\_\_\_\_\_.

**Select the correct option**

|                                  |                    |
|----------------------------------|--------------------|
| <input type="radio"/>            | block of genes     |
| <input checked="" type="radio"/> | noncoding sequence |
| <input type="radio"/>            | coding sequence    |
| <input type="radio"/>            | replica sequence   |

## ZOO505 - Cell and Molecular Biology (Quiz 2)

Question # 3 of 10 ( **Start time: 12:39:54 AM, 01 March 2022** )

\_\_\_\_\_ binds with block A and block B of tRNA in the process of transcription.

Select the correct option

|                                  |       |
|----------------------------------|-------|
| <input type="radio"/>            | TFIIB |
| <input checked="" type="radio"/> | TFIIC |
| <input type="radio"/>            | TFIIC |
| <input type="radio"/>            | TFIIB |

## ZOO505 - Cell and Molecular Biology (Quiz 2)

Question # 2 of 10 ( **Start time: 12:39:39 AM, 01 March 2022** )

The removal of intron is done by linear and lariat patterns.

Select the correct option

|                                  |                               |
|----------------------------------|-------------------------------|
| <input checked="" type="radio"/> | true statement                |
| <input type="radio"/>            | both are wrong                |
| <input type="radio"/>            | false statement               |
| <input type="radio"/>            | only linear patterns are seen |

## ZOO505 - Cell and Molecular Biology (Quiz 2)

Question # 1 of 10 ( **Start time: 12:39:25 AM, 01 March 2022** )

tRNA synthetases class 2 are \_\_\_\_\_.

Select the correct option

|                                  |            |
|----------------------------------|------------|
| <input type="radio"/>            | tetrameric |
| <input type="radio"/>            | dimeric    |
| <input type="radio"/>            | monomeric  |
| <input checked="" type="radio"/> | b and c    |

## Question # 10 of 10 ( Start time: 12:36:24 AM, 01 March 2022 )

Dihydrouridine is derived from uridine by enzymatic reduction of the double bond between carbon \_\_\_\_ and \_\_\_\_.

Select the correct option

|                                  |         |
|----------------------------------|---------|
| <input checked="" type="radio"/> | 5 and 6 |
| <input type="radio"/>            | 3 and 6 |
| <input type="radio"/>            | 3 and 4 |
| <input type="radio"/>            | 6 and 4 |

Click to Save An

ZOO505 – Cell and Molecular Biology (Quiz 2)

Question # 9 of 10 ( **Start time: 12:36:11 AM, 01 March 2022** )

The structure of tRNA is like \_\_\_\_\_.

Select the correct option

|                                  |            |
|----------------------------------|------------|
| <input type="radio"/>            | duplex     |
| <input checked="" type="radio"/> | cloverleaf |
| <input type="radio"/>            | cabbage    |
| <input type="radio"/>            | thread     |

## ZOO505 - Cell and Molecular Biology (Quiz 2)

Question # 8 of 10 ( **Start time: 12:35:23 AM, 01 March 2022** )

Each tRNA is always specific to each \_\_\_\_\_

Select the correct option

|                                  |            |
|----------------------------------|------------|
| <input type="radio"/>            | gene       |
| <input type="radio"/>            | ribosomes  |
| <input type="radio"/>            | nucleotide |
| <input checked="" type="radio"/> | amino acid |



## ZOO505 – Cell and Molecular Biology (Quiz 2)

Question # 7 of 10 ( **Start time: 12:33:54 AM, 01 March 2022** )

----- sequence is detected by tRNA present on template mRNA.

Select the correct option

|                                  |           |
|----------------------------------|-----------|
| <input checked="" type="radio"/> | anticodon |
| <input type="radio"/>            | AUACCCC   |
| <input type="radio"/>            | AACGGGU   |
| <input type="radio"/>            | codon     |

## ZOO505 – Cell and Molecular Biology (Quiz 2)

Question # 6 of 10 ( **Start time: 12:33:01 AM, 01 March 2022** )

Kozak sequence increases the efficiency of \_\_\_\_\_.

Select the correct option

|                                  |               |
|----------------------------------|---------------|
| <input type="radio"/>            | transcription |
| <input checked="" type="radio"/> | translation   |
| <input type="radio"/>            | metabolism    |
| <input type="radio"/>            | replication   |

## ZOO505 – Cell and Molecular Biology (Quiz 2)

Question # 5 of 10 ( **Start time: 12:31:33 AM, 01 March 2022** )

In translation, the acceptor stem of tRNA binds with \_\_\_\_\_.

Select the correct option

|                                  |               |
|----------------------------------|---------------|
| <input type="radio"/>            | ribosomes     |
| <input checked="" type="radio"/> | amino acid    |
| <input type="radio"/>            | template mRNA |
| <input type="radio"/>            | template DNA  |

## ZOO505 - Cell and Molecular Biology (Quiz 2)

Question # 4 of 10 ( **Start time: 12:30:57 AM, 01 March 2022** )

During the process of intron removal, \_\_\_\_ is formed.

Select the correct option

|                                  |             |
|----------------------------------|-------------|
| <input checked="" type="radio"/> | splice site |
| <input type="radio"/>            | lariat      |
| <input type="radio"/>            | nick        |
| <input type="radio"/>            | ester       |

ZOO505 - Cell and Molecular Biology (Quiz 2)

Question # 3 of 10 ( Start time: 12:30:09 AM, 01 March 2022 )

Series of three nucleotides is called \_\_\_\_\_.

Select the correct option

|                                  |                    |
|----------------------------------|--------------------|
| <input checked="" type="radio"/> | coding sequence    |
| <input type="radio"/>            | noncoding sequence |
| <input type="radio"/>            | tRNA               |
| <input type="radio"/>            | replica sequence   |

Click to S

Question # 2 of 10 ( Start time: 12:29:55 AM, 01 March 2022 )

In the process of RNA translation, the \_\_\_\_\_ moves along \_\_\_\_\_ to synthesize peptide.

Select the correct option

|                                  |                     |
|----------------------------------|---------------------|
| <input type="radio"/>            | peptides, ribosomes |
| <input type="radio"/>            | mRNA, ribosomes     |
| <input checked="" type="radio"/> | ribosomes, mRNA     |
| <input type="radio"/>            | ribosomes, peptides |

Click to Save

## ZOO505 - Cell and Molecular Biology (Quiz 2)

Question # 1 of 10 ( **Start time: 12:29:23 AM, 01 March 2022** )

The RNA that attaches with one amino acid is called \_\_\_\_.

Select the correct option

|                                  |       |
|----------------------------------|-------|
| <input checked="" type="radio"/> | tRNA  |
| <input type="radio"/>            | snRNA |
| <input type="radio"/>            | rRNA  |
| <input type="radio"/>            | mRNA  |

## ZOO505 - Cell and Molecular Biology (Quiz 2)

Question # 10 of 10 ( **Start time: 12:09:36 AM, 01 March 2022** )

The removal of introns by introns itself through specific conformation is called \_\_\_\_\_.

Select the correct option

|                                  |                    |
|----------------------------------|--------------------|
| <input checked="" type="radio"/> | Self – splicing    |
| <input type="radio"/>            | Intron removal     |
| <input type="radio"/>            | Normal splicing    |
| <input type="radio"/>            | Relatable splicing |



## Question # 9 of 10 ( Start time: 12:08:14 AM, 01 March 2022 )

\_\_\_\_\_ is present at 5 prime ends of mRNA (upstream) in the process of prokaryotic translation.

Select the correct option

|                                  |                       |
|----------------------------------|-----------------------|
| <input type="radio"/>            | origin of replication |
| <input type="radio"/>            | peptide binding site  |
| <input checked="" type="radio"/> | ribosome binding site |
| <input type="radio"/>            | RNA binding site      |

## ZOO505 – Cell and Molecular Biology (Quiz 2)

Question # 8 of 10 ( **Start time: 12:07:33 AM, 01 March 2022** )

The RNA that attaches with one amino acid is called \_\_\_\_.

Select the correct option

|                                  |       |
|----------------------------------|-------|
| <input type="radio"/>            | mRNA  |
| <input type="radio"/>            | rRNA  |
| <input type="radio"/>            | snRNA |
| <input checked="" type="radio"/> | tRNA  |

## ZOO505 - Cell and Molecular Biology (Quiz 2)

Question # 7 of 10 ( **Start time: 12:07:18 AM, 01 March 2022** )

The structure of tRNA is like \_\_\_\_\_.

Select the correct option

|                                  |            |
|----------------------------------|------------|
| <input type="radio"/>            | duplex     |
| <input checked="" type="radio"/> | cloverleaf |
| <input type="radio"/>            | cabbage    |
| <input type="radio"/>            | thread     |

## ZOO505 – Cell and Molecular Biology (Quiz 2)

Question # 6 of 10 ( **Start time: 12:07:00 AM, 01 March 2022** )

Adenylation and tRNA charging is done by \_\_\_\_.

Select the correct option

|                                  |                |
|----------------------------------|----------------|
| <input type="radio"/>            | hydrolase      |
| <input type="radio"/>            | polymerase     |
| <input checked="" type="radio"/> | aminoacyl-tRNA |
| <input type="radio"/>            | reductase      |

## ZOO505 - Cell and Molecular Biology (Quiz 2)

### Question # 5 of 10 ( Start time: 12:06:44 AM, 01 March 2022 )

Zamecnik and his collaborators used \_\_\_\_ in their experiment for understanding translation of proteins.

Select the correct option

|                                  |                         |
|----------------------------------|-------------------------|
| <input type="radio"/>            | reductive amino acids   |
| <input type="radio"/>            | fluorescent amino acids |
| <input checked="" type="radio"/> | radioactive amino acids |
| <input type="radio"/>            | probe amino acids       |

Click to

## ZOO505 – Cell and Molecular Biology (Quiz 2)

Question # 4 of 10 ( **Start time: 12:04:36 AM, 01 March 2022** )

tRNA molecules usually have \_\_\_\_\_regions.

Select the correct option

|                                  |                      |
|----------------------------------|----------------------|
| <input checked="" type="radio"/> | self-complementarity |
| <input type="radio"/>            | linear               |
| <input type="radio"/>            | super coiled         |
| <input type="radio"/>            | coiled               |

## ZOO505 – Cell and Molecular Biology (Quiz 2)

Question # 3 of 10 ( **Start time: 12:04:24 AM, 01 March 2022** )

AUG is a \_\_\_\_ codon.

Select the correct option

|                                  |             |
|----------------------------------|-------------|
| <input type="radio"/>            | terminator  |
| <input checked="" type="radio"/> | start       |
| <input type="radio"/>            | stop        |
| <input type="radio"/>            | replicating |

## ZOO505 - Cell and Molecular Biology (Quiz 2)

Question # 1 of 10 ( **Start time: 12:02:28 AM, 01 March 2022** )

Each ORF, origin of replication, is specific for \_\_\_\_\_.

Select the correct option

|                                  |                  |
|----------------------------------|------------------|
| <input type="radio"/>            | many proteins    |
| <input type="radio"/>            | many transcripts |
| <input type="radio"/>            | one transcript   |
| <input checked="" type="radio"/> | one protein      |



## ZOO505 - Cell and Molecular Biology (Quiz 2)

Question # 10 of 10 ( **Start time: 11:57:37 PM, 28 February 2022** )

tRNA synthetases class 2 are \_\_\_\_\_.

Select the correct option

|                                  |            |
|----------------------------------|------------|
| <input type="radio"/>            | tetrameric |
| <input checked="" type="radio"/> | b and c    |
| <input type="radio"/>            | monomeric  |
| <input type="radio"/>            | dimeric    |

## ZOO505 – Cell and Molecular Biology (Quiz 2)

Question # 6 of 10 ( **Start time: 11:54:26 PM, 28 February 2022** )

Zamecnik and his collaborators used \_\_\_\_ in their experiment for understanding translation of proteins.

Select the correct option

|                                  |                         |
|----------------------------------|-------------------------|
| <input type="radio"/>            | fluorescent amino acids |
| <input type="radio"/>            | probe amino acids       |
| <input checked="" type="radio"/> | radioactive amino acids |
| <input type="radio"/>            | reductive amino acids   |

## ZOO505 – Cell and Molecular Biology (Quiz 2)

Question # 5 of 10 ( **Start time: 11:53:39 PM, 28 February 2022** )

tRNA synthetases class I are \_\_\_\_\_.

Select the correct option

|                                  |            |
|----------------------------------|------------|
| <input type="radio"/>            | tetrameric |
| <input checked="" type="radio"/> | monomeric  |
| <input type="radio"/>            | dimeric    |
| <input type="radio"/>            | trimeric   |

## ZOO505 - Cell and Molecular Biology (Quiz 2)

### Question # 4 of 10 ( Start time: 11:53:27 PM, 28 February 2022 )

Which of the following is an example of huge molecular machine?

Select the correct option

|                                  |             |
|----------------------------------|-------------|
| <input type="radio"/>            | RNAse       |
| <input type="radio"/>            | DNAse       |
| <input checked="" type="radio"/> | spliceosome |
| <input type="radio"/>            | polymerase  |

## ZOO505 - Cell and Molecular Biology (Quiz 2)

Question # 3 of 10 ( **Start time: 11:53:10 PM, 28 February 2022** )

During the process of translation, \_\_\_ number of ribosomes attach to one mRNA.

Select the correct option

|                                  |         |
|----------------------------------|---------|
| <input type="radio"/>            | one     |
| <input type="radio"/>            | three   |
| <input checked="" type="radio"/> | several |
| <input type="radio"/>            | two     |

## ZOO505 - Cell and Molecular Biology (Quiz 2)

Question # 2 of 10 ( **Start time: 11:52:35 PM, 28 February 2022** )

Which type of RNA is used to be transcribed by Pol I.

Select the correct option

|                                  |                  |
|----------------------------------|------------------|
| <input type="radio"/>            | tRNA             |
| <input type="radio"/>            | all of the above |
| <input type="radio"/>            | mRNA             |
| <input checked="" type="radio"/> | rRNA             |

## Question # 1 of 10 ( Start time: 11:52:19 PM, 28 February 2022 )

Amino acids must attach to adapter molecules before peptide formation, it was proposed in \_\_\_\_.

Select the correct option

|                                  |      |
|----------------------------------|------|
| <input type="radio"/>            | 1945 |
| <input type="radio"/>            | 1956 |
| <input checked="" type="radio"/> | 1955 |
| <input type="radio"/>            | 1845 |

[Click to](#)

## ZOO505 – Cell and Molecular Biology (Quiz 2)

Question # 10 of 10 ( **Start time: 11:33:13 PM, 28 February 2022** )

TFIIIC is responsible for recruiting \_\_\_ in the process of transcription.

Select the correct option

|                                  |        |
|----------------------------------|--------|
| <input type="radio"/>            | TFIIB  |
| <input type="radio"/>            | TFAK   |
| <input checked="" type="radio"/> | TFIIB  |
| <input type="radio"/>            | TFIIIB |



OO505 - Cell and Molecular Biology (Quiz 2)

Question # 8 of 10 ( Start time: 11:29:01 PM, 28 February 2022 )

Adenylation and tRNA charging is done by -----.

Select the correct option

|                                  |                |
|----------------------------------|----------------|
| <input type="radio"/>            | polymerase     |
| <input type="radio"/>            | hydrolase      |
| <input type="radio"/>            | reductase      |
| <input checked="" type="radio"/> | aminoacyl-tRNA |

## ZOO505 - Cell and Molecular Biology (Quiz 2)

### Question # 7 of 10 ( Start time: 11:27:30 PM, 28 February 2022 )

In translation, the acceptor stem of tRNA binds with \_\_\_\_\_.

Select the correct option

|                                  |               |
|----------------------------------|---------------|
| <input type="radio"/>            | ribosomes     |
| <input type="radio"/>            | template mRNA |
| <input type="radio"/>            | template DNA  |
| <input checked="" type="radio"/> | amino acid    |