

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

Bif_101

Introduction to Bioinformatics

Quiz No.2 Fall 2022

Full Solution

Total Marks: 10

Due date: 17/12/2022



***"Don't Stop When you Tired,
Stop When you Done"***

0304-4756496

MUHAMMAD ZAMAN 😊

For Paid Quiz contact on 03044756496

1- Bioinformatics helps us to understand the whole system of a single cell, in that cell how organelles, gene, proteins and metabolites are interconnected in a single unified system (cell).

Quiz

https://vulms.vu.edu.pk/Quiz/QuizQuestion.aspx?ver=ef8160ae-7d2c-48f5-b699-12f9f013f...

BIF101 - Introduction to Bioinformatics (Quiz no.2) Quiz Start Time: 07:44 PM, 15 December 2022

Question #1 of 5 (Start time: 07:44:47 PM, 15 December 2022) Total Marks: 1

Bioinformatics helps us to understand the whole system of a single cell, in that cell how organelles, gene, proteins and metabolites are interconnected in a single unified system (cell).

Select the correct option

False

True

Reload Math Equations

Click to Save Answer & Move to Next Question

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2- Bioinformatics helps in studying

Quiz

https://vulms.vu.edu.pk/Quiz/QuizQuestion.aspx?ver=d8f3c8ec-2867-49f0-b7f3-00311aa6...

BIF101 - Introduction to Bioinformatics (Quiz no.2)**Quiz Start Time: 07:44 PM, 15 December 2022**

Question # 2 of 5 (Start time: 07:45:46 PM, 15 December 2022)**Total Marks: 1**

Bioinformatics helps in studying

Select the correct option

Reload Math Equations

☐	Proteomics, Systems Biology
☒	All
☐	Genomics, Evolutionary Studies,
☐	None

Click to Save Answer & Move to Next Question

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3- DNA sends the information to cell via tRNA and that sequence the amino acids according to coded information and protein structure is formed and that protein forms a cell.

Quiz

DNA sends the information to cell

https://vulms.vu.edu.pk/Quiz/QuizQuestion.aspx?ver=46ecf418-08e4-45cc-9917-2d13367...

BIF101 - Introduction to Bioinformatics (Quiz no.2)

Quiz Start Time: 07:44 PM, 15 December 2022

Question # 3 of 5 (Start time: 07:46:58 PM, 15 December 2022)

Total Marks: 1

DNA sends the information to cell via tRNA and that sequence the amino acids according to coded information and protein structure is formed and that protein forms a cell.

Select the correct option

Reload Math Equations

True

False

Click to Save Answer & Move to Next Question

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BIF101 Handouts PDF FULL BOO x BIF 101 TOTAL MCQS.pdf x +

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The diagram illustrates the structural and chemical differences between RNA and DNA. On the left, the RNA structure is shown as a single helix, while on the right, the DNA structure is shown as a double helix. The sugar-phosphate backbone is labeled for both. Nucleobases of RNA (Uracil and Adenine) are shown on the left, and nucleobases of DNA (Thymine and Adenine) are shown on the right. The chemical structures of Uracil and Thymine are also depicted.

RNA
Ribonucleic acid

DNA
Deoxyribonucleic acid

Figure 3.1.3: RNA vs. DNA

2. MECHANISM

DNA sends the **information to cell** via **mRNA** and that sequence the amino acids according to coded information and **protein** structure is formed and that protein forms a **cell**.

mRNA

PROTEIN

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4- Central Dogma has following steps:

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Quiz Central Dogma has following steps

https://vulms.vu.edu.pk/Quiz/QuizQuestion.aspx?ver=cfd2ebc9-a503-4e7c-90d9-9b4bb67...

BIF101 – Introduction to Bioinformatics (Quiz no.2) **Quiz Start Time: 07:44 PM, 15 December 2022**

Question # 4 of 5 (Start time: 07:47:45 PM, 15 December 2022) **Total Marks: 1**

Central Dogma has following steps:

Select the correct option

Reload Math Equations

☐	None
☐	Transcription from DNA to RNA and Translation from mRNA to Protein
☒	Both
☐	DNA→RNA→Protein

Click to Save Answer & Move to Next Question

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7:49 PM 12/15/2022

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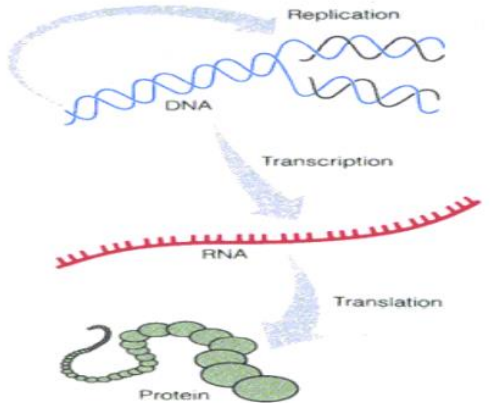
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Central Dogma

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The **central dogma** states that information in nucleic acid can be perpetuated or transferred, but the transfer of information from nucleic acid into protein is irreversible.



The diagram illustrates the Central Dogma of Biology. It shows a blue double helix labeled 'DNA' at the top. A blue arrow labeled 'Replication' points from the DNA to another DNA molecule. A blue arrow labeled 'Transcription' points from the DNA to a red single strand labeled 'RNA'. A blue arrow labeled 'Translation' points from the RNA to a green chain of beads labeled 'Protein'.

Central Dogma of Biology:

- DNA → RNA → Protein Synthesis
- Transcription:

Process of DNA serving as a template for RNA synthesis

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5- Start Codon is

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Quiz

Start Codon is - Search

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BIF101 – Introduction to Bioinformatics (Quiz no.2) Quiz Start Time: 07:44 PM, 15 December 2022

Question # 5 of 5 (Start time: 07:49:15 PM, 15 December 2022) Total Marks: 1

Start Codon is

Select the correct option

Reload Math Equations

☐	UAG
☐	UGA
☒	AUG
☐	UAA

Click to Save Answer & Move to Next Question

Type here to search

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1- DNA sends the information to cell via tRNA and that sequence the

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**amino acids according to coded
information and protein structure
is formed and that protein forms a
cell.**

Quiz

Start Codon is - Search

https://vulms.vu.edu.pk/Quiz/QuizQuestion.aspx?ver=d83f2ae5-8b9c-4b68-92b1-7a...

BIF101 – Introduction to Bioinformatics (Quiz no.2) Quiz Start Time: 07:50 PM, 15 December 2022

Question # 1 of 5 (Start time: 07:50:29 PM, 15 December 2022) Total Marks: 1

DNA sends the information to cell via tRNA and that sequence the amino acids according to coded information and protein structure is formed and that protein forms a cell.

Select the correct option

Reload Math Equations

☐	True
☒	False

Click to Save Answer & Move to Next Question

Type here to search

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2- During cell division each daughter cell receives a copy of the genome of the child cell.

The screenshot shows a web browser window with a single tab titled 'Quiz'. The address bar displays the URL: <https://vulms.vu.edu.pk/Quiz/QuizQuestion.aspx?ver=9b7497a9-a609-4d91-9b27-61...>. The page header indicates 'BIF101 - Introduction to Bioinformatics (Quiz no.2)' and 'Quiz Start Time: 07:50 PM, 15 December 2022'. The main content area shows 'Question # 2 of 5 (Start time: 07:50:52 PM, 15 December 2022)' with 'Total Marks: 1'. The question text is 'During cell division each daughter cell receives a copy of the genome of the child cell.' Below the question, there are two radio button options: 'False' and 'True'. The 'False' option is selected. At the bottom right of the question area, there is a button labeled 'Click to Save Answer & Move to Next Question'. The Windows taskbar at the bottom shows the search bar, taskbar icons for File Explorer, Edge, and Word, and the system clock displaying '7:51 PM 12/15/2022'.

Quiz

During cell division each daughter cell receives a copy of the genome of the child cell.

BIF101 - Introduction to Bioinformatics (Quiz no.2) Quiz Start Time: 07:50 PM, 15 December 2022

Question # 2 of 5 (Start time: 07:50:52 PM, 15 December 2022) Total Marks: 1

During cell division each daughter cell receives a copy of the genome of the child cell.

Select the correct option

Reload Math Equations

False

True

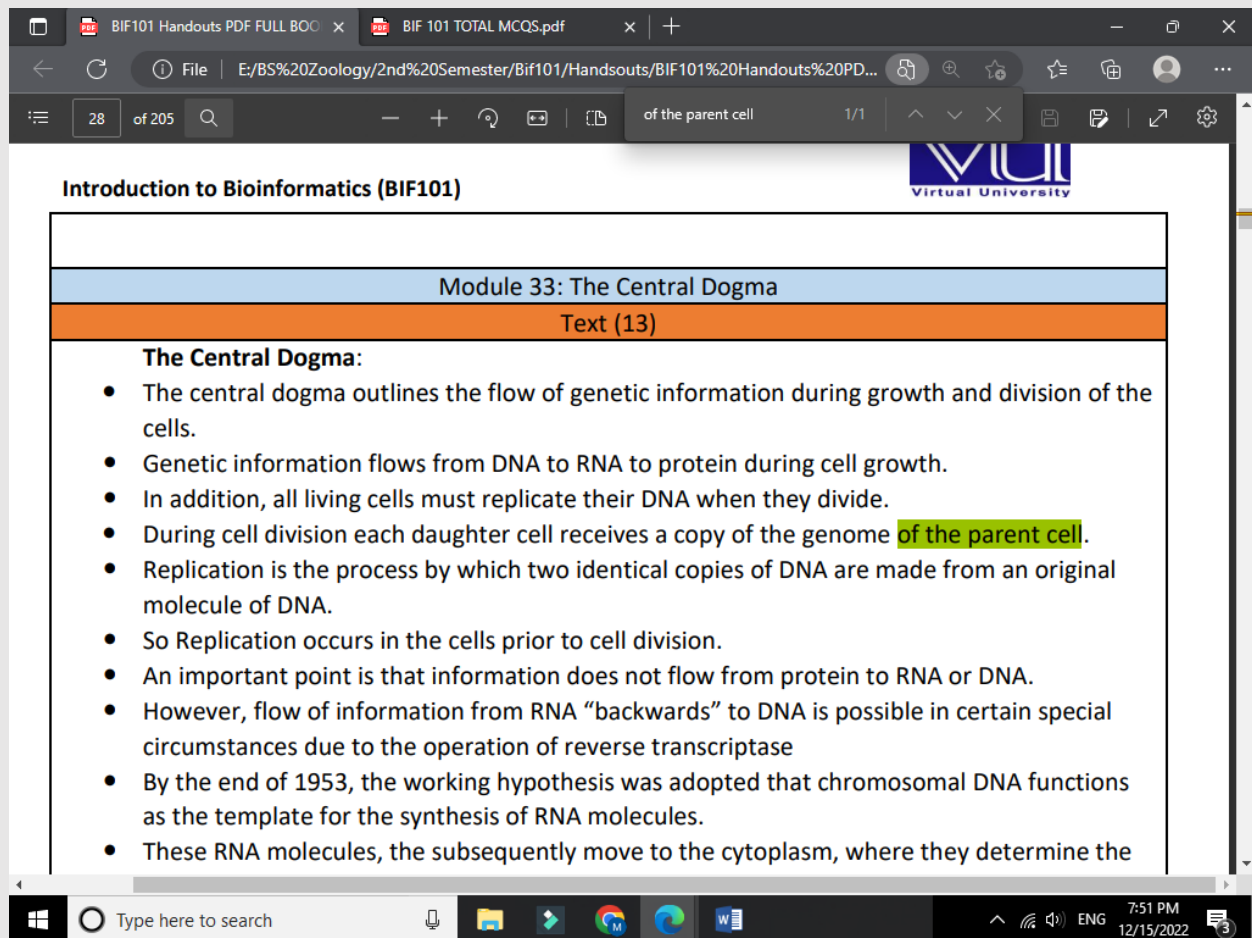
Click to Save Answer & Move to Next Question

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Introduction to Bioinformatics (BIF101)

Module 33: The Central Dogma

Text (13)

The Central Dogma:

- The central dogma outlines the flow of genetic information during growth and division of the cells.
- Genetic information flows from DNA to RNA to protein during cell growth.
- In addition, all living cells must replicate their DNA when they divide.
- During cell division each daughter cell receives a copy of the genome of the parent cell.
- Replication is the process by which two identical copies of DNA are made from an original molecule of DNA.
- So Replication occurs in the cells prior to cell division.
- An important point is that information does not flow from protein to RNA or DNA.
- However, flow of information from RNA “backwards” to DNA is possible in certain special circumstances due to the operation of reverse transcriptase
- By the end of 1953, the working hypothesis was adopted that chromosomal DNA functions as the template for the synthesis of RNA molecules.
- These RNA molecules, the subsequently move to the cytoplasm, where they determine the

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2- Bioinformatics helps us to understand the systems from small to big like from gene findings to entire system prediction including

Quiz

Bioinformatics helps us to under

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BIF101 - Introduction to Bioinformatics (Quiz no.2)

Quiz Start Time: 07:50 PM, 15 December 2022

Question # 3 of 5 (Start time: 07:51:48 PM, 15 December 2022)

Total Marks: 1

Bioinformatics helps us to understand the systems from small to big like from gene findings to entire system prediction including

Select the correct option

Reload Math Equations

☐ Modeling of many biological system

☐ None

☐ Protein structure prediction

☒ All

Click to Save Answer & Move to Next Question

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The screenshot shows a PDF viewer window with two tabs: 'BIF101 Handouts PDF FULL BOO' and 'BIF 101 TOTAL MCQS.pdf'. The active tab displays a document page titled 'findings to entire system' (1/1). The page content includes a paragraph about the personalization of medicines, a section titled '1.1. SMALL TO BIG' with a bulleted list of bioinformatics applications, and a section titled '2. CONCLUSION'. The Windows taskbar at the bottom shows the search bar, taskbar icons for File Explorer, Edge, Word, and other apps, and a system tray with the date and time (7:53 PM, 12/15/2022).

personalization of medicines for cure.

Except this applications Bioinformatics introduced us the techniques which enabled us to generate the large data regarding biology and its use. And step by step the applications of bioinformatics increased from genomic level to entire system level.

1.1. SMALL TO BIG

- Bioinformatics helps us to understand the systems from small to big like from gene **findings to entire system** prediction
- In **structure findings and modeling of many biological system** to understand them in better ways
- Bioinformatics helped the human to understand the protein, protein interaction in many biological systems
- And provide us the concept how these biological processes are interconnected with each other and how they affect each other
- Now we can understand the modeling of molecules and genome at cell level
- Signaling pathways are easy just because of bioinformatics
- Now morphology of tissue can be understanding by creating the models with help of bioinformatics tools

2. CONCLUSION

Bioinformatics not only just collect, analyze and store the data it processes it in very

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3- DNA sends the information to cell via mRNA and that sequence the amino acids according to coded information and protein structure is formed and that protein forms a cell.

The screenshot shows a web browser window with the address bar displaying <https://vulms.vu.edu.pk/Quiz/QuizQuestion.aspx?ver=d4a58c5c-d4d8-4a11-8a43-b9fd555...>. The page title is "BIF101 - Introduction to Bioinformatics (Quiz no.2)". The quiz start time is "07:50 PM, 15 December 2022". The question is "Question # 4 of 5 (Start time: 07:53:18 PM, 15 December 2022)" with "Total Marks: 1". The question text is "DNA sends the information to cell via mRNA and that sequence the amino acids according to coded information and protein structure is formed and that protein forms a cell." Below the question, there are two radio button options: "True" and "False". The "True" option is selected. At the bottom of the question area, there is a button that says "Click to Save Answer & Move to Next Question". The browser's taskbar at the bottom shows the Windows logo, a search bar, and several application icons (File Explorer, Edge, Word, etc.). The system clock shows "7:54 PM 12/15/2022".

Quiz Start Time: 07:50 PM, 15 December 2022

Question # 4 of 5 (Start time: 07:53:18 PM, 15 December 2022) Total Marks: 1

DNA sends the information to cell via mRNA and that sequence the amino acids according to coded information and protein structure is formed and that protein forms a cell.

Select the correct option

True

False

Click to Save Answer & Move to Next Question

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4- The formation of a specific RNA from a specific DNA

The screenshot shows a web browser window with the following details:

- Browser Tab:** Quiz
- Address Bar:** <https://vulms.vu.edu.pk/Quiz/QuizQuestion.aspx?ver=318adde3-e388-4690-a6b0-d3b99cf...>
- Page Header:** BIF101 – Introduction to Bioinformatics (Quiz no.2) Quiz Start Time: 07:50 PM, 15 December 2022
- Question # 5 of 5 (Start time: 07:54:02 PM, 15 December 2022)** Total Marks: 1
- Question Text:** The formation of a specific RNA from a specific DNA
- Instruction:** Select the correct option
- Options:**
 - ☐ Reproduction
 - ☐ Translation
 - ☐ Replication
 - ☒ Transcription
- Buttons:** Reload Math Equations, Click to Save Answer & Move to Next Question

The Windows taskbar at the bottom shows the search bar, taskbar icons for File Explorer, Edge, and Word, and system tray icons for network, volume, and date/time (7:54 PM, 12/15/2022).

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Conclusion: UUU is an mRNA codon for phenylalanine.
AAA is an mRNA codon for lysine.
CCC is an mRNA codon for proline.

the Genetic Code Nirenberg and Matthaei used a test-tube protein synthesis system to determine the amino acids specified by synthetic mRNAs of known codon composition

Module 37: Transcription

Text (8)

Transcription—the formation of a **specific RNA** from a **specific DNA**—requires several components:

- A DNA template for complementary base pairing
- The appropriate ribonucleoside triphosphates (ATP, GTP, CTP, and UTP) to act as substrates
- An enzyme, RNA polymerase

Within each gene, only one of the two strands of DNA— the template strand—is transcribed. The other, complementary DNA strand, referred to as the non-template strand, remains untranscribed. For different genes in the same DNA molecule, different strands may be transcribed. That is, the strand that is the non-template strand in one

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_____ is an interdisciplinary field mainly involving molecular biology and genetics, computer science, mathematics, and statistics.

The screenshot shows a web browser window with a quiz titled "BIF101 - Introduction to Bioinformatics (Quiz no.2)". The question is "Question # 1 of 5 (Start time: 07:40:56 PM, 16 December 2022)". The question text is "_____ is an interdisciplinary field mainly involving molecular biology and genetics, computer science, mathematics, and statistics." The options are: None, Neural Network, Bioinformatics, and Biostatistic. The "Bioinformatics" option is selected. There are buttons for "Reload Math Equations" and "Click to Save Answer & Move to Next Question". The browser address bar shows "https://vulms.vu.edu.pk/Quiz/QuizQuestion.aspx?ver=d464dcd9-98f0-4dfb-bb1f-215e9d5...". The Windows taskbar at the bottom shows the search bar and various application icons.

Quiz

_____ is an interdisciplinary

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BIF101 - Introduction to Bioinformatics (Quiz no.2)

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Question # 1 of 5 (Start time: 07:40:56 PM, 16 December 2022) Total Marks: 1

_____ is an interdisciplinary field mainly involving molecular biology and genetics, computer science, mathematics, and statistics.

Select the correct option

Reload Math Equations

☐	None
☐	Neural Network
☒	Bioinformatics
☐	Biostatistic

Click to Save Answer & Move to Next Question

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AUG or ATG is the _____.

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Quiz AUG or ATG is the _____

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BIF101 - Introduction to Bioinformatics (Quiz no.2) Quiz Start Time: 07:40 PM, 16 December 2022

Question # 2 of 5 (Start time: 07:41:30 PM, 16 December 2022) Total Marks: 1

AUG or ATG is the _____

Select the correct option

Reload Math Equations

☐	Stop Codon
☒	Start Codon

Click to Save Answer & Move to Next Question

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Biologists can sequence the whole genome with the bioinformatics tool i.e.

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Quiz | Biologists can sequence the whole genome with the bioinformatics tool i.e.

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BIF101 – Introduction to Bioinformatics (Quiz no.2) Quiz Start Time: 07:40 PM, 16 December 2022

Question # 3 of 5 (Start time: 07:41:54 PM, 16 December 2022) Total Marks: 1

Biologists can sequence the whole genome with the bioinformatics tool i.e.

Select the correct option

Reload Math Equations

☐	None
☐	Next Gene Sequencing (NGS)
☒	Next Generation Sequencing (NGS)
☐	Next Genome Sequencing (NGS)

Click to Save Answer & Move to Next Question

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7:42 PM 12/16/2022

DNA molecule although is double stranded and RNA is single stranded but there is difference in sugar composition

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**and in one nitrogenous base i.e., in DNA
Thymine present while in RNA Uracil
present.**

Quiz

DNA molecule although is doub

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BIF101 - Introduction to Bioinformatics (Quiz no.2)

Quiz Start Time: 07:40 PM, 16 December 2022

Question # 4 of 5 (Start time: 07:42:33 PM, 16 December 2022)

Total Marks: 1

DNA molecule although is double stranded and RNA is single stranded but there is difference in sugar composition and in one nitrogenous base i.e., in DNA Thymine present while in RNA Uracil present.

Select the correct option

Reload Math Equations

False

True

Click to Save Answer & Move to Next Question

Type here to search

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**Proteins may take on various
_____ leading to a very
large number of functionally unique
molecules.**

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Quiz Proteins may take on various _____ x +

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BIF101 – Introduction to Bioinformatics (Quiz no.2) **Quiz Start Time: 07:40 PM, 16 December 2022**

Question # 5 of 5 (Start time: 07:43:32 PM, 16 December 2022) **Total Marks: 1**

Proteins may take on various _____ leading to a very large number of functionally unique molecules.

Select the correct option [Reload Math Equations](#)

☒	Post-translational modifications
☐	Pre-translational modifications
☐	Atoms
☐	Hormones

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

Type here to search

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Bioinformatics helps in studying

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Quiz

Bioinformatics helps in studying

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BC210413076: SHAHID IMRAN

Time Left 78 sec(s)

BIF101 - Introduction to Bioinformatics (Quiz no.2)

Quiz Start Time: 07:48 PM, 16 December 2022

Question # 1 of 5 (Start time: 07:48:39 PM, 16 December 2022)

Total Marks: 1

Bioinformatics helps in studying

Select the correct option

Reload Math Equations

☒ All

☐ Proteomics, Systems Biology

☐ Genomics, Evolutionary Studies,

☐ None

Click to Save Answer & Move to Next Question

Type here to search

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_____ is the process by which the information in a strand of DNA is

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copied into a new molecule of messenger RNA (mRNA).

The screenshot shows a web browser window with the address bar displaying <https://vulms.vu.edu.pk/Quiz/QuizQuestion.aspx?ver=235d6684-af96-4bac-9457-a5...>. The page title is "BIF101 - Introduction to Bioinformatics (Quiz no.2)". The quiz start time is "07:48 PM, 16 December 2022". The question is "Question # 2 of 5 (Start time: 07:48:59 PM, 16 December 2022)" and the total marks are 1. The question text is "_____ is the process by which the information in a strand of DNA is copied into a new molecule of messenger RNA (mRNA)." Below the question is a "Select the correct option" section with four radio button options: "Transcription", "Reproduction", "Translation", and "Replication". The "Transcription" option is selected. There is a "Reload Math Equations" button and a "Click to Save Answer & Move to Next Question" button. The Windows taskbar at the bottom shows the search bar, task view, and several open applications including File Explorer, Google Chrome, and Microsoft Word. The system clock shows 7:49 PM on 12/16/2022.

Quiz Start Time: 07:48 PM, 16 December 2022

Question # 2 of 5 (Start time: 07:48:59 PM, 16 December 2022) Total Marks: 1

_____ is the process by which the information in a strand of DNA is copied into a new molecule of messenger RNA (mRNA).

Select the correct option

☒ Transcription

☐ Reproduction

☐ Translation

☐ Replication

Click to Save Answer & Move to Next Question

DNA sends the information to cell via mRNA and that sequence the amino acids according to coded information

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**and protein structure is formed and
that protein forms a cell.**

The screenshot shows a web browser window with the address bar displaying <https://vulms.vu.edu.pk/Quiz/QuizQuestion.aspx?ver=cadf3b05-295f-4838-9ada-424...>. The page title is "BIF101 - Introduction to Bioinformatics (Quiz no.2)". The quiz start time is "07:48 PM, 16 December 2022". The question is "Question # 3 of 5 (Start time: 07:49:21 PM, 16 December 2022)" with "Total Marks: 1". The question text is "DNA sends the information to cell via mRNA and that sequence the amino acids according to coded information and protein structure is formed and that protein forms a cell." Below the question, there are two radio button options: "False" and "True". The "True" option is selected. A button labeled "Reload Math Equations" is visible. At the bottom of the question area, there is a button labeled "Click to Save Answer & Move to Next Question". The Windows taskbar is visible at the bottom of the browser window.

Quiz Start Time: 07:48 PM, 16 December 2022

Question # 3 of 5 (Start time: 07:49:21 PM, 16 December 2022) Total Marks: 1

DNA sends the information to cell via mRNA and that sequence the amino acids according to coded information and protein structure is formed and that protein forms a cell.

Select the correct option

False

True

Reload Math Equations

Click to Save Answer & Move to Next Question

**DNA sends the information to cell via
tRNA and that sequence the amino acids
according to coded information and**

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**protein structure is formed and that
protein forms a cell.**

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Quiz DNA sends the information to cell x +

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BIF101 - Introduction to Bioinformatics (Quiz no.2) Quiz Start Time: 07:48 PM, 16 December 2022

Question # 4 of 5 (Start time: 07:49:53 PM, 16 December 2022) Total Marks: 1

DNA sends the information to cell via tRNA and that sequence the amino acids according to coded information and protein structure is formed and that protein forms a cell.

Select the correct option

Reload Math Equations

☐	True
☒	False

Click to Save Answer & Move to Next Question

Type here to search

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Quiz DNA sends the information to ce x +

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BIF101 – Introduction to Bioinformatics (Quiz no.2) Quiz Start Time: 07:48 PM, 16 December 2022

Question # 5 of 5 (Start time: 07:50:26 PM, 16 December 2022) Total Marks: 1

Central Dogma has following steps:

Select the correct option

Reload Math Equations

☐	None
☐	DNA→RNA→Protein
☐	Transcription from DNA to RNA and Translation from mRNA to Protein
☒	Both

Click to Save Answer & Move to Next Question

Type here to search

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4h7QWa1D53roe](https://chat.whatsapp.com/HMS1CGrZW4h7QWa1D53roe)**

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**There is all are 100% right solved
But there is a little chance of any
mistake**

**Please if you find any mistake then also
let us to Know**

Muhammad Zaman

03044756496

JazakAllaH

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