

VU Medical Zone

BT 504 Quiz no 2 Fall 2020

BT504:Quiz No. 2

Quiz Start Time: 11:28 AM, 13 February 2021

Question # 1 of 10 (Start time: 11:28:03 AM, 13 February 2021)

Total Marks: 1

In genome assembly Short dead-end branches of the main path are called _____.

Select the correct option

☒	Spurs	Answer solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com
☐	Bubbles	
☐	Converging and diverging paths	
☐	Cycles	

Click to Save Answer & Move to Next Question

BT504:Quiz No. 2

Quiz Start Time: 11:28 AM, 13 February 2021

Question # 2 of 10 (Start time: 11:28:55 AM, 13 February 2021)

Total Marks: 1

Assembly Pipeline process can be divided into following major phases, except _____.

Select the correct option

☒	Assembling	Answer solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com
☐	Unitiging	
☐	Scaffolding	
☐	Repeat resolution	

Click to Save Answer & Move to Next Question

Effort By Amaan Khan

VU Medical Zone

BT504:Quiz No. 2

Quiz Start Time: 11:28 AM, 13 February 2021

Question # 3 of 10 (Start time: 11:29:31 AM, 13 February 2021)

Total Marks: 1

Proteins are biologically important except _____.

Select the correct option

☐	Cellular Function	
☐	Structural importance	
☐	Enzymes	
☒	1st choice Energy Source	Answer solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com

Click to Save Answer & Move to Next Question



BT504:Quiz No. 2

Quiz Start Time: 11:28 AM, 13 February 2021

Question # 4 of 10 (Start time: 11:29:41 AM, 13 February 2021)

Total Marks: 1

Which of the following statements regarding the peptide bond is false?

Select the correct option

☐	The peptide bond is rigid and planar.	
☒	The oxygen atom of the carbonyl carbon and the hydrogen atom of the amide group lie in a cis position relative to each other	Answer solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com
☐	The carbon nitrogen bond in a peptide linkage is shorter than the normal carbon nitrogen bond in an amine.	
☐	The carbon nitrogen bond in the peptide linkage has a partial double bond character.	

Click to Save Answer & Move to Next Question



Effort By Amaan Khan

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BT504:Quiz No. 2

Quiz Start Time: 11:28 AM, 13 February 2021

Question # 5 of 10 (Start time: 11:31:31 AM, 13 February 2021)

Total Marks: 1

ALLPATHS-LG assemblies are not necessarily _____, but instead are presented in the form of a _____.

Select the correct option

☒	Linear, graph	Answer solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com
☐	Circular, graph	
☐	Graph, Line	
☐	Linear, Circle	

Click to Save Answer & Move to Next Question

Windows taskbar showing icons for Start, File Explorer, Edge, and a Google Chrome window titled "Quiz - Google Chr...". The system clock shows 11:32 AM on 2/13/2021.

BT504:Quiz No. 2

Quiz Start Time: 11:28 AM, 13 February 2021

Question # 6 of 10 (Start time: 11:32:14 AM, 13 February 2021)

Total Marks: 1

ALLPATHS-LG requires _____ computer operating system.

Select the correct option

☒	64 bit Linux	Answer solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com
☐	32 bit Linux	
☐	64 bit Windows	
☐	32 bit Windows	

Click to Save Answer & Move to Next Question

Windows taskbar showing icons for Start, File Explorer, Edge, and a Google Chrome window titled "Quiz - Google Chr...". The system clock shows 11:32 AM on 2/13/2021.

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BT504:Quiz No. 2

Quiz Start Time: 11:28 AM, 13 February 2021

Question # 7 of 10 (Start time: 11:32:43 AM, 13 February 2021)

Total Marks: 1

Self-comparison of proteome yields _____ and duplications.

Select the correct option

☒	Gene families	Answer solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com
☐	Protein families	
☐	Proteome families	
☐	Genome families	



Click to Save Answer & Move to Next Question



BT504:Quiz No. 2

Quiz Start Time: 11:28 AM, 13 February 2021

Question # 8 of 10 (Start time: 11:33:53 AM, 13 February 2021)

Total Marks: 1

The local conformation of a part of a polypeptide chain within a protein is known as _____ structure.

Select the correct option

☐	quaternary	
☐	tertiary	
☒	secondary	Answer solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com
☐	primary	

Click to Save Answer & Move to Next Question



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BT504:Quiz No. 2

Quiz Start Time: 11:28 AM, 13 February 2021

Question # 9 of 10 (Start time: 11:34:03 AM, 13 February 2021)

Total Marks: 1

The qualities of genome assemblies are evaluated by _____.

Select the correct option

☒	Presence of expected genes	Answer solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com
☐	Poisson distribution	
☐	Presence of expected introns	
☐	Presence of expected exons	

Click to Save Answer & Move to Next Question



BT504:Quiz No. 2

Quiz Start Time: 11:28 AM, 13 February 2021

Question # 10 of 10 (Start time: 11:35:17 AM, 13 February 2021)

Total Marks: 1

Graph is a set of nodes plus set of edges between the _____.

Select the correct option

☒	Nodes	Answer solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com
☐	Edges	
☐	Nodes and edges	
☐	Arc	

Click to Save Answer & Move to Next Question



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BT504:Quiz No. 2

Quiz Start Time: 11:15 AM, 13 February 2021

Question # 1 of 10 (Start time: 11:15:01 AM, 13 February 2021)

Total Marks: 1

Most common measure of assembly quality is _____.

Select the correct option

☒	N50	Answer solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com	/
☐	N95		/
☐	M50		/
☐	KN95		/

Click to Save Answer & Move to Next Question



BT504:Quiz No. 2

Quiz Start Time: 11:15 AM, 13 February 2021

Question # 2 of 10 (Start time: 11:15:45 AM, 13 February 2021)

Total Marks: 1

Linus Pauling and Robert Corey carefully analyzed the _____ bond.

Select the correct option

☒	Peptide	Answer solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com	/
☐	Glycosidic		/
☐	Phosphodiester		/
☐	Hydrogen		/

Click to Save Answer & Move to Next Question



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BT504:Quiz No. 2

Quiz Start Time: 11:15 AM, 13 February 2021

Question # 3 of 10 (Start time: 11:16:14 AM, 13 February 2021)

Total Marks: 1

Study of Proteomics is important except _____.

Select the correct option

☐	It directly contributes to drug development	
☒	Classification of a gene product	Answer solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com
☐	Modifications of the proteins	
☐	Protein expression	

Click to Save Answer & Move to Next Question



BT504:Quiz No. 2

Quiz Start Time: 11:15 AM, 13 February 2021

Question # 4 of 10 (Start time: 11:17:07 AM, 13 February 2021)

Total Marks: 1

In Lander and Waterman model, if overlap length was larger than a cutoff (T), then the two reads should be merged into a _____.

Select the correct option

☒	Contig	Answer solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com
☐	Assembly	
☐	Scaffold	
☐	Graph	

Click to Save Answer & Move to Next Question



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BT504:Quiz No. 2

Quiz Start Time: 11:15 AM, 13 February 2021

Question # 5 of 10 (Start time: 11:17:39 AM, 13 February 2021)

Total Marks: 1

In Assembly Pipeline Quality Screening is done while satisfying the following matrices, except _____.

Select the correct option

☒	Poisson distribution	Answer solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com
☐	Library quality	
☐	Sequencing Run Quality	
☐	Read Quality	

Click to Save Answer & Move to Next Question



BT504:Quiz No. 2

Quiz Start Time: 11:15 AM, 13 February 2021

Question # 6 of 10 (Start time: 11:18:39 AM, 13 February 2021)

Total Marks: 1

The proteome is _____ the genome due to alternative splicing.

Select the correct option

☒	Larger than	Answer solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com
☐	Smaller than	
☐	Proportional to	
☐	Equal to	

Click to Save Answer & Move to Next Question



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BT504:Quiz No. 2

Quiz Start Time: 11:15 AM, 13 February 2021

Question # 7 of 10 (Start time: 11:19:10 AM, 13 February 2021)

Total Marks: 1

The local conformation of a part of a polypeptide chain within a protein is known as _____ structure.

Select the correct option

☐	quaternary	
☐	tertiary	
☒	secondary	Answer solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com
☐	primary	

Click to Save Answer & Move to Next Question



BT504:Quiz No. 2

Quiz Start Time: 11:15 AM, 13 February 2021

Question # 8 of 10 (Start time: 11:20:03 AM, 13 February 2021)

Total Marks: 1

For genome assembly try different assemblers as there is no _____.

Select the correct option

☒	Best assembler	Answer solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com
☐	Duplicates	
☐	Libraries	
☐	Parameter	

Click to Save Answer & Move to Next Question



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BT504:Quiz No. 2

Quiz Start Time: 11:15 AM, 13 February 2021

Question # 9 of 10 (Start time: 11:20:35 AM, 13 February 2021)

Total Marks: 1

_____ proteomics refers to the quantitative study of protein expression between samples differing by some variable.

Select the correct option

☒	Expression	Answer solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com
☐	Functional	
☐	Structural	
☐	Protein Profiling	

Click to Save Answer & Move to Next Question



BT504:Quiz No. 2

Quiz Start Time: 11:15 AM, 13 February 2021

Question # 10 of 10 (Start time: 11:21:09 AM, 13 February 2021)

Total Marks: 1

Proteins are biological important except _____.

Select the correct option

☐	Cellular Function	
☐	Structural importance	
☐	Enzymes	
☒	1st choice Energy Source	Answer solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com

Click to Save Answer & Move to Next Question



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BT504:Quiz No. 2

Quiz Start Time: 11:37 AM, 13 February 2021

Question # 1 of 10 (Start time: 11:37:17 AM, 13 February 2021)

Total Marks: 1

Which of the following statements regarding the peptide bond is false?

Select the correct option

- | | | |
|----------------------------------|--|---|
| ☐ | The peptide bond is rigid and planar. | |
| ☒ | The oxygen atom of the carbonyl carbon and the hydrogen atom of the amide group lie in a cis position relative to each other | Answer solved by Amaan Khan
Contact: 0305-4716616
Email: maniamaan2@gmail.com |
| ☐ | The carbon nitrogen bond in a peptide linkage is shorter than the normal carbon nitrogen bond in an amine. | |
| ☐ | The carbon nitrogen bond in the peptide linkage has a partial double bond character. | |

Click to Save Answer & Move to Next Question



BT504:Quiz No. 2

Quiz Start Time: 11:37 AM, 13 February 2021

Question # 2 of 10 (Start time: 11:37:38 AM, 13 February 2021)

Total Marks: 1

Most common measure of assembly quality is _____.

Select the correct option

- | | | |
|----------------------------------|------|---|
| ☒ | N50 | Answer solved by Amaan Khan
Contact: 0305-4716616
Email: maniamaan2@gmail.com |
| ☐ | N95 | |
| ☐ | M50 | |
| ☐ | KN95 | |

Click to Save Answer & Move to Next Question



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BT504:Quiz No. 2

Quiz Start Time: 11:37 AM, 13 February 2021

Question # 3 of 10 (Start time: 11:37:54 AM, 13 February 2021)

Total Marks: 1

Self-comparison of proteome yields _____ and duplications.

Select the correct option

☒	Gene families	Answer solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com
☐	Protein families	
☐	Proteome families	
☐	Genome families	

Click to Save Answer & Move to Next Question



BT504:Quiz No. 2

Quiz Start Time: 11:37 AM, 13 February 2021

Question # 4 of 10 (Start time: 11:38:05 AM, 13 February 2021)

Total Marks: 1

ALLPATHS-LG requires _____ computer operating system.

Select the correct option

☒	64 bit Linux	Answer solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com
☐	32 bit Linux	
☐	64 bit Windows	
☐	32 bit Windows	

Click to Save Answer & Move to Next Question



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BT504:Quiz No. 2

Quiz Start Time: 11:37 AM, 13 February 2021

Question # 5 of 10 (Start time: 11:38:16 AM, 13 February 2021)

Total Marks: 1

Protein Domain comparison reveals the _____ of the Proteome.

Select the correct option

☒	Biological roles	Answer solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com
☐	Physical roles	
☐	Organic roles	
☐	Chemical roles	

Click to Save Answer & Move to Next Question



BT504:Quiz No. 2

Quiz Start Time: 11:37 AM, 13 February 2021

Question # 6 of 10 (Start time: 11:38:52 AM, 13 February 2021)

Total Marks: 1

The terms "proteomics" and "proteome" were coined by Marc Wilkins and colleagues in _____.

Select the correct option

☒	1994	Answer solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com
☐	1990	
☐	1984	
☐	2003	

Click to Save Answer & Move to Next Question



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BT504:Quiz No. 2

Quiz Start Time: 11:37 AM, 13 February 2021

Question # 8 of 10 (Start time: 11:39:31 AM, 13 February 2021)

Total Marks: 1

The first step of the De Bruijn assembler is to _____ the sequencing reads into its constitutive "kmers".

Select the correct option

☒	Deconstruct	Answer solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com
☐	Reconstruct	
☐	Construct	
☐	Arrange	

Click to Save Answer & Move to Next Question

Windows taskbar showing icons for Start, File Explorer, Edge, and a Google Chrome window titled "Quiz - Google Chr...". The system clock shows 11:40 AM on 2/13/2021.

BT504:Quiz No. 2

Quiz Start Time: 11:37 AM, 13 February 2021

Question # 10 of 10 (Start time: 11:42:40 AM, 13 February 2021)

Total Marks: 1

In Assembly Pipeline Quality Screening is done while satisfying the following matrices, except _____.

Select the correct option

☒	Poisson distribution	Answer solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com
☐	Library quality	
☐	Sequencing Run Quality	
☐	Read Quality	

Click to Save Answer & Move to Next Question

Windows taskbar showing icons for Start, File Explorer, Edge, and a Google Chrome window titled "Quiz - Google Chr...". The system clock shows 11:43 AM on 2/13/2021.

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BT504:Quiz No. 2

Quiz Start Time: 11:44 AM, 13 February 2021

Question # 1 of 10 (Start time: 11:44:32 AM, 13 February 2021)

Total Marks: 1

ALLPATHS-LG assemblies are not necessarily _____, but instead are presented in the form of a _____.

Select the correct option

☒	Linear, graph	Answer solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com
☐	Circular, graph	
☐	Graph, Line	
☐	Linear, Circle	

Click to Save Answer & Move to Next Question



BT504:Quiz No. 2

Quiz Start Time: 11:44 AM, 13 February 2021

Question # 2 of 10 (Start time: 11:44:50 AM, 13 February 2021)

Total Marks: 1

In genome assembly Short dead-end branches of the main path are called _____.

Select the correct option

☒	Spurs	Answer solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com
☐	Bubbles	
☐	Converging and diverging paths	
☐	Cycles	

Click to Save Answer & Move to Next Question



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BT504:Quiz No. 2

Quiz Start Time: 11:44 AM, 13 February 2021

Question # 3 of 10 (Start time: 11:45:01 AM, 13 February 2021)

Total Marks: 1

In an overlap graph, an _____ connects two nodes if an overlap is identified between the corresponding reads.

Select the correct option

☐	Vertex	
☒	Edge	Answer solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com
☐	Node	
☐	Arc	

Click to Save Answer & Move to Next Question



BT504:Quiz No. 2

Quiz Start Time: 11:44 AM, 13 February 2021

Question # 4 of 10 (Start time: 11:46:11 AM, 13 February 2021)

Total Marks: 1

The first step of the De Bruijn assembler is to _____ the sequencing reads into its constitutive "kmers".

Select the correct option

☒	Deconstruct	Answer solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com
☐	Reconstruct	
☐	Construct	
☐	Arrange	

Click to Save Answer & Move to Next Question



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BT504:Quiz No. 2

Quiz Start Time: 11:44 AM, 13 February 2021

Question # 5 of 10 (Start time: 11:46:25 AM, 13 February 2021)

Total Marks: 1

Protein forming amino acids are called _____ amino acids.

Select the correct option

☐	Essential	
☐	Non-essential	
☐	Basic	
☒	Standard	Answer solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com

Click to Save Answer & Move to Next Question



BT504:Quiz No. 2

Quiz Start Time: 11:44 AM, 13 February 2021

Question # 6 of 10 (Start time: 11:47:02 AM, 13 February 2021)

Total Marks: 1

The qualities of genome assemblies are evaluated by _____.

Select the correct option

☒	Presence of expected genes	Answer solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com
☐	Poisson distribution	
☐	Presence of expected introns	
☐	Presence of expected exons	

Click to Save Answer & Move to Next Question



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BT504:Quiz No. 2

Quiz Start Time: 11:44 AM, 13 February 2021

Question # 7 of 10 (Start time: 11:47:38 AM, 13 February 2021)

Total Marks: 1

Protein Domain comparison reveals the _____ of the Proteome.

Select the correct option

☒	Biological roles	Answer solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com
☐	Physical roles	
☐	Organic roles	
☐	Chemical roles	

Click to Save Answer & Move to Next Question



BT504:Quiz No. 2

Quiz Start Time: 11:44 AM, 13 February 2021

Question # 8 of 10 (Start time: 11:47:49 AM, 13 February 2021)

Total Marks: 1

The local conformation of a part of a polypeptide chain within a protein is known as _____ structure.

Select the correct option

☐	quaternary	Answer solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com
☐	tertiary	
☒	secondary	
☐	primary	

Click to Save Answer & Move to Next Question



Effort By Amaan Khan

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BT504:Quiz No. 2

Quiz Start Time: 11:44 AM, 13 February 2021

Question # 9 of 10 (Start time: 11:47:58 AM, 13 February 2021)

Total Marks: 1

In Assembly Pipeline Quality Screening is done while satisfying the following matrices, except _____.

Select the correct option

☒	Poisson distribution	Answer solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com
☐	Library quality	
☐	Sequencing Run Quality	
☐	Read Quality	

Click to Save Answer & Move to Next Question



BT504:Quiz No. 2

Quiz Start Time: 11:44 AM, 13 February 2021

Question # 10 of 10 (Start time: 11:48:10 AM, 13 February 2021)

Total Marks: 1

Most common measure of assembly quality is _____.

Select the correct option

☒	N50	Answer solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com
☐	N95	
☐	M50	
☐	KN95	

Click to Save Answer & Move to Next Question



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