

VU Medical Zone

BT 505 Quiz no 2 Fall 2021

BT505:Quiz 2

Quiz Start Time: 07:33 PM, 02 March 2022

Question # 1 of 10 (Start time: 07:33:11 PM, 02 March 2022)

Total Marks: 1

A typical molecular beacon probe is _____ nucleotides long.

Select the correct option

☒	15	Answers Solved By Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com
☐	25	
☐	10	
☐	35	



Click to Save Answer & Move to Next Question

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22°C Partly cloudy 7:35 PM 3/2/2022

BT505:Quiz 2

Quiz Start Time: 07:33 PM, 02 March 2022

Question # 2 of 10 (Start time: 07:34:44 PM, 02 March 2022)

Total Marks: 1

_____ are tree like super structure that consists of several similar branched DNA units, connected to each other using DNA ligase.

Select the correct option

☒	DNA Dendrimers	Answers Solved By Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com
☐	Probes	
☐	DNA peptides	
☐	Aptamers	

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22°C Partly cloudy 7:36 PM 3/2/2022

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BT505:Quiz 2

Quiz Start Time: 07:33 PM, 02 March 2022

Question # 3 of 10 (Start time: 07:35:43 PM, 02 March 2022)

Total Marks: 1

The fluid flow is laminar when the value of Reynolds number (Re) is less than _____.

Select the correct option

☐	4000
☐	8000
☒	2000
☐	6000

Answers Solved By Amaan Khan
Contact: 0305-4716616
Email: maniamaan2@gmail.com

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BT505:Quiz 2

Quiz Start Time: 07:33 PM, 02 March 2022

Question # 4 of 10 (Start time: 07:36:13 PM, 02 March 2022)

Total Marks: 1

The oxidation of DNA bases is carried out near pH _____ using phosphate buffer solution.

Select the correct option

☐	3.8
☐	6
☒	7.4
☐	5.5

Answers Solved By Amaan Khan
Contact: 0305-4716616
Email: maniamaan2@gmail.com

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BT505:Quiz 2

Quiz Start Time: 07:33 PM, 02 March 2022

Question # 5 of 10 (Start time: 07:36:37 PM, 02 March 2022)

Total Marks: 1

The efficiency of DNA base biosensor could be improved by _____ base electrodes.

Select the correct option

☐	Hydrogen/metal
☒	Carbon/metal
☐	Sulphur
☐	Nitrogen/ hydrogen

Answers Solved By Amaan Khan
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Email: maniamaan2@gmail.com

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BT505:Quiz 2

Quiz Start Time: 07:33 PM, 02 March 2022

Question # 6 of 10 (Start time: 07:37:17 PM, 02 March 2022)

Total Marks: 1

_____ is a process which decreases the fluorescence intensity of a substance.

Select the correct option

☐	Fluorescence
☐	Dissipation
☐	Impedance
☒	Quenching

Answers Solved By Amaan Khan
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Email: maniamaan2@gmail.com

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BT505:Quiz 2

Quiz Start Time: 07:33 PM, 02 March 2022

Question # 7 of 10 (Start time: 07:37:48 PM, 02 March 2022)

Total Marks: 1

Molecular weight of avidin/streptavidin is _____ kDa

Select the correct option

☐	90	
☒	70	Answers Solved By Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com
☐	55	
☐	40	

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

BT505:Quiz 2

Quiz Start Time: 07:33 PM, 02 March 2022

Question # 8 of 10 (Start time: 07:39:07 PM, 02 March 2022)

Total Marks: 1

When human DNA is exposed to γ rays and heavy particles, there is an increase in the _____ main degraded products of guanine.

Select the correct option

☐	1	
☒	2	Answers Solved By Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com
☐	4	
☐	3	

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

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BT505:Quiz 2

Quiz Start Time: 07:33 PM, 02 March 2022

Question # 9 of 10 (Start time: 07:39:36 PM, 02 March 2022)

Total Marks: 1

_____ is the ratio of inertial forces to viscous forces.

Select the correct option

☒	Reynolds number	Answers Solved By Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com
☐	Shielding Effect	
☐	Dissipation factor	
☐	Inertia	

Click to Save Answer & Move to Next Question

BT505:Quiz 2

Quiz Start Time: 07:33 PM, 02 March 2022

Question # 10 of 10 (Start time: 07:40:00 PM, 02 March 2022)

Total Marks: 1

Aptamers bind to their target by determining the _____ structure.

Select the correct option

☐	Primary	Answers Solved By Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com
☐	Secondary	
☒	Tertiary	
☐	Quaternary	

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BT505:Quiz 2

Quiz Start Time: 07:41 PM, 02 March 2022

Question # 1 of 10 (Start time: 07:41:08 PM, 02 March 2022)

Total Marks: 1

In _____ technique, the synthesized DNA probe is typically linked with the group of thiols (SH) or amines (NH₂) at the end of 3' or 5' to bind covalently to the metal surface or specific functional group introduced to the electrode surface.

Select the correct option

☒	Capping	Answers Solved By Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com
☐	Avidin/ Biotin Interaction	
☐	Covalent Bonding	
☐	Adsorption	

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

BT505:Quiz 2

Quiz Start Time: 07:41 PM, 02 March 2022

Question # 2 of 10 (Start time: 07:42:20 PM, 02 March 2022)

Total Marks: 1

Enzymes are employed in DNA based Biosensors to _____ of the DNA based biosensors.

Select the correct option

☐	Decrease the sensitivity	Answers Solved By Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com
☒	Increase the sensitivity	
☐	Resolution	
☐	Immobilization	

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

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BT505:Quiz 2

Quiz Start Time: 07:41 PM, 02 March 2022

Question # 3 of 10 (Start time: 07:42:55 PM, 02 March 2022)

Total Marks: 1

Aptamers bind to their target by determining the _____ structure.

Select the correct option

☐	Quaternary
☐	Primary
☐	Secondary
☒	Tertiary

Answers Solved By Amaan Khan
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BT505:Quiz 2

Quiz Start Time: 07:41 PM, 02 March 2022

Question # 4 of 10 (Start time: 07:43:22 PM, 02 March 2022)

Total Marks: 1

_____ are short DNA oligonucleotides (12-40-mer) able to hybridize with specific target sequences.

Select the correct option

☐	DNA Dendrimers
☒	Aptamers
☐	Antibody
☐	DNA Probes

Answers Solved By Amaan Khan
Contact: 0305-4716616
Email: maniamaan2@gmail.com

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BT505:Quiz 2

Quiz Start Time: 07:41 PM, 02 March 2022

Question # 5 of 10 (Start time: 07:44:21 PM, 02 March 2022)

Total Marks: 1

_____ is a DNA mimic in which the nucleobases are linked by an N-(2-aminoethyl) glycine backbone.

Select the correct option

☐	Amino Acids
☒	Aptamer
☐	DNA Probe
☐	Peptide nucleic acid (PNA)

Click to Save Answer & Move to Next Question

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BT505:Quiz 2

Quiz Start Time: 07:41 PM, 02 March 2022

Question # 6 of 10 (Start time: 07:45:17 PM, 02 March 2022)

Total Marks: 1

_____ is the insertion of molecules between the planar bases of DNA by Vander wall forces.

Select the correct option

☒	Intercalation
☐	Hybridization
☐	Replication
☐	Transcription

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BT505:Quiz 2

Quiz Start Time: 07:41 PM, 02 March 2022

Question # 7 of 10 (Start time: 07:45:43 PM, 02 March 2022)

Total Marks: 1

_____ is the technology of manipulating and controlling fluids and particles at micron and submicron.

Select the correct option

☐	Raman Spectroscopy
☐	Lab on a chip
☒	Microfluidics
☐	SELEX

Answers Solved By Amaan Khan
Contact: 0305-4716616
Email: maniamaan2@gmail.com

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BT505:Quiz 2

Quiz Start Time: 07:41 PM, 02 March 2022

Question # 8 of 10 (Start time: 07:46:46 PM, 02 March 2022)

Total Marks: 1

When human DNA is exposed to γ rays and heavy particles, there is an increase in the _____ main degraded products of guanine.

Select the correct option

☒	2
☐	4
☐	3
☐	1

Answers Solved By Amaan Khan
Contact: 0305-4716616
Email: maniamaan2@gmail.com

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BT505:Quiz 2

Quiz Start Time: 07:41 PM, 02 March 2022

Question # 9 of 10 (Start time: 07:47:05 PM, 02 March 2022)

Total Marks: 1

The fluid flow is turbulent when the value of Reynolds number is greater than _____.

Select the correct option

☐	1500
☐	3000
☐	40
☒	4000

Answers Solved By Amaan Khan
Contact: 0305-4716616
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BT505:Quiz 2

Quiz Start Time: 07:41 PM, 02 March 2022

Question # 10 of 10 (Start time: 07:47:30 PM, 02 March 2022)

Total Marks:

The fluid flow is laminar when the value of Reynolds number (Re) is less than _____.

Select the correct option

☒	2000
☐	6000
☐	8000
☐	4000

Answers Solved By Amaan Khan
Contact: 0305-4716616
Email: maniamaan2@gmail.com

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

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