

# 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

|                                  |    |                                                                                                           |
|----------------------------------|----|-----------------------------------------------------------------------------------------------------------|
| <input checked="" type="radio"/> | 15 | <b>Answers Solved By Amaan Khan</b><br><b>Contact: 0305-4716616</b><br><b>Email: maniamaan2@gmail.com</b> |
| <input type="radio"/>            | 25 |                                                                                                           |
| <input type="radio"/>            | 10 |                                                                                                           |
| <input type="radio"/>            | 35 |                                                                                                           |



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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

|                                  |                |                                                                                                           |
|----------------------------------|----------------|-----------------------------------------------------------------------------------------------------------|
| <input checked="" type="radio"/> | DNA Dendrimers | <b>Answers Solved By Amaan Khan</b><br><b>Contact: 0305-4716616</b><br><b>Email: maniamaan2@gmail.com</b> |
| <input type="radio"/>            | Probes         |                                                                                                           |
| <input type="radio"/>            | DNA peptides   |                                                                                                           |
| <input type="radio"/>            | Aptamers       |                                                                                                           |

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22°C Partly cloudy 7:36 PM 3/2/2022

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# VU Medical Zone

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:

|                                  |      |
|----------------------------------|------|
| <input type="radio"/>            | 4000 |
| <input type="radio"/>            | 8000 |
| <input checked="" type="radio"/> | 2000 |
| <input type="radio"/>            | 6000 |

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**Contact: 0305-4716616**  
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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:

|                                  |     |
|----------------------------------|-----|
| <input type="radio"/>            | 3.8 |
| <input type="radio"/>            | 6   |
| <input checked="" type="radio"/> | 7.4 |
| <input type="radio"/>            | 5.5 |

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**Contact: 0305-4716616**  
**Email: maniamaan2@gmail.com**

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# VU Medical Zone

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

|                                  |                    |
|----------------------------------|--------------------|
| <input type="radio"/>            | Hydrogen/metal     |
| <input checked="" type="radio"/> | Carbon/metal       |
| <input type="radio"/>            | Sulphur            |
| <input type="radio"/>            | Nitrogen/ hydrogen |

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**Contact: 0305-4716616**  
**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

|                                  |              |
|----------------------------------|--------------|
| <input type="radio"/>            | Fluorescence |
| <input type="radio"/>            | Dissipation  |
| <input type="radio"/>            | Impedance    |
| <input checked="" type="radio"/> | Quenching    |

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# VU Medical Zone

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

|                                  |    |
|----------------------------------|----|
| <input type="radio"/>            | 90 |
| <input checked="" type="radio"/> | 70 |
| <input type="radio"/>            | 55 |
| <input type="radio"/>            | 40 |

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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  $\gamma$  rays and heavy particles, there is an increase in the \_\_\_\_\_ main degraded products of guanine.

Select the correct option

|                                  |   |
|----------------------------------|---|
| <input type="radio"/>            | 1 |
| <input checked="" type="radio"/> | 2 |
| <input type="radio"/>            | 4 |
| <input type="radio"/>            | 3 |

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**Contact: 0305-4716616**  
**Email: maniamaan2@gmail.com**

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# VU Medical Zone

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

|                                  |                    |                                                                                                           |
|----------------------------------|--------------------|-----------------------------------------------------------------------------------------------------------|
| <input checked="" type="radio"/> | Reynolds number    | <b>Answers Solved By Amaan Khan</b><br><b>Contact: 0305-4716616</b><br><b>Email: maniamaan2@gmail.com</b> |
| <input type="radio"/>            | Shielding Effect   |                                                                                                           |
| <input type="radio"/>            | Dissipation factor |                                                                                                           |
| <input type="radio"/>            | Inertia            |                                                                                                           |

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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

|                                  |            |                                                                                                           |
|----------------------------------|------------|-----------------------------------------------------------------------------------------------------------|
| <input type="radio"/>            | Primary    | <b>Answers Solved By Amaan Khan</b><br><b>Contact: 0305-4716616</b><br><b>Email: maniamaan2@gmail.com</b> |
| <input type="radio"/>            | Secondary  |                                                                                                           |
| <input checked="" type="radio"/> | Tertiary   |                                                                                                           |
| <input type="radio"/>            | Quaternary |                                                                                                           |

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# VU Medical Zone

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 (NH<sub>2</sub>) 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

|                                  |                            |                                                                                                           |
|----------------------------------|----------------------------|-----------------------------------------------------------------------------------------------------------|
| <input checked="" type="radio"/> | Capping                    | <b>Answers Solved By Amaan Khan</b><br><b>Contact: 0305-4716616</b><br><b>Email: maniamaan2@gmail.com</b> |
| <input type="radio"/>            | Avidin/ Biotin Interaction |                                                                                                           |
| <input type="radio"/>            | Covalent Bonding           |                                                                                                           |
| <input type="radio"/>            | Adsorption                 |                                                                                                           |

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

|                                  |                          |                                                                                                           |
|----------------------------------|--------------------------|-----------------------------------------------------------------------------------------------------------|
| <input type="radio"/>            | Decrease the sensitivity |                                                                                                           |
| <input checked="" type="radio"/> | Increase the sensitivity | <b>Answers Solved By Amaan Khan</b><br><b>Contact: 0305-4716616</b><br><b>Email: maniamaan2@gmail.com</b> |
| <input type="radio"/>            | Resolution               |                                                                                                           |
| <input type="radio"/>            | Immobilization           |                                                                                                           |

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# VU Medical Zone

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

|                                  |            |
|----------------------------------|------------|
| <input type="radio"/>            | Quaternary |
| <input type="radio"/>            | Primary    |
| <input type="radio"/>            | Secondary  |
| <input checked="" type="radio"/> | Tertiary   |

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**Contact: 0305-4716616**  
**Email: maniamaan2@gmail.com**

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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

|                                  |                |
|----------------------------------|----------------|
| <input type="radio"/>            | DNA Dendrimers |
| <input checked="" type="radio"/> | Aptamers       |
| <input type="radio"/>            | Antibody       |
| <input type="radio"/>            | DNA Probes     |

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**Contact: 0305-4716616**  
**Email: maniamaan2@gmail.com**

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# VU Medical Zone

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 nucleo bases are linked by an N-(2-aminoethyl) glycine backbone.

Select the correct option

|                                  |                            |
|----------------------------------|----------------------------|
| <input type="radio"/>            | Amino Acids                |
| <input checked="" type="radio"/> | Aptamer                    |
| <input type="radio"/>            | DNA Probe                  |
| <input type="radio"/>            | Peptide nucleic acid (PNA) |

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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

|                                  |               |
|----------------------------------|---------------|
| <input checked="" type="radio"/> | Intercalation |
| <input type="radio"/>            | Hybridization |
| <input type="radio"/>            | Replication   |
| <input type="radio"/>            | 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

|                                  |                    |
|----------------------------------|--------------------|
| <input type="radio"/>            | Raman Spectroscopy |
| <input type="radio"/>            | Lab on a chip      |
| <input checked="" type="radio"/> | Microfluidics      |
| <input type="radio"/>            | SELEX              |

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**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  $\gamma$  rays and heavy particles, there is an increase in the \_\_\_\_\_ main degraded products of guanine.

Select the correct option

|                                  |   |
|----------------------------------|---|
| <input checked="" type="radio"/> | 2 |
| <input type="radio"/>            | 4 |
| <input type="radio"/>            | 3 |
| <input type="radio"/>            | 1 |

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**Contact: 0305-4716616**  
**Email: maniamaan2@gmail.com**

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BT505:Quiz 2

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

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# VU Medical Zone

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

|                                  |      |
|----------------------------------|------|
| <input type="radio"/>            | 1500 |
| <input type="radio"/>            | 3000 |
| <input type="radio"/>            | 40   |
| <input checked="" type="radio"/> | 4000 |

**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 # 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

|                                  |      |
|----------------------------------|------|
| <input checked="" type="radio"/> | 2000 |
| <input type="radio"/>            | 6000 |
| <input type="radio"/>            | 8000 |
| <input type="radio"/>            | 4000 |

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**Contact: 0305-4716616**  
**Email: maniamaan2@gmail.com**

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