

VU Medical Zone

BT 505 Quiz no 2 Fall 2020

BT505:Quiz No2

Quiz Start Time: 03:19 AM, 10 February 2021

Question # 1 of 10 (Start time: 03:19:01 AM, 10 February 2021)

Total Marks: 1

Monoclonal antibodies (mAbs) are produced by introducing an antigen to a mouse and then fusing polyclonal _____ cells from the mouse's spleen to myeloma cells

Select the correct option

☒	Nerve cells	Answer solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com
☐	T cells	
☐	B cells	
☐	Neutrophils	



Click to Save Answer & Move to Next Question



BT505:Quiz No2

Quiz Start Time: 03:19 AM, 10 February 2021

Question # 2 of 10 (Start time: 03:20:48 AM, 10 February 2021)

Total Marks: 1

Generally, the flow of fluid in a microchip is laminar due to _____ and small distances.

Select the correct option

☐	High Speed	Answer solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com
☐	Resistance	
☒	Small diameter	
☐	Smooth Path	

Click to Save Answer & Move to Next Question



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BT505:Quiz No2

Quiz Start Time: 03:19 AM, 10 February 2021

Question # 3 of 10 (Start time: 03:21:33 AM, 10 February 2021)

Total Marks: 1

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

Select the correct option

☐	1500	
☐	3000	
☒	4000	Answer solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com
☐	40	

Click to Save Answer & Move to Next Question



BT505:Quiz No2

Quiz Start Time: 03:19 AM, 10 February 2021

Question # 4 of 10 (Start time: 03:22:27 AM, 10 February 2021)

Total Marks: 1

In ELISA, the modified form of _____ is used for immobilization

Select the correct option

☒	Polystyrene	Answer solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com
☐	Polythene	
☐	Polyvinyl chloride	
☐	Neoprene	

Click to Save Answer & Move to Next Question



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BT505:Quiz No2

Quiz Start Time: 03:19 AM, 10 February 2021

Question # 5 of 10 (Start time: 03:22:41 AM, 10 February 2021)

Total Marks: 1

When plants are attacked by pathogen, they become under _____.

Select the correct option

☐	Resistance	
☒	Stress	Answer solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com
☐	Rich in nutrients	
☐	Flaccid	

Click to Save Answer & Move to Next Question



BT505:Quiz No2

Quiz Start Time: 03:19 AM, 10 February 2021

Question # 6 of 10 (Start time: 03:23:52 AM, 10 February 2021)

Total Marks: 1

DNA biosensors are based on the employment of DNA molecule as a _____.

Select the correct option

☒	Biorecognition element	Answer solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com
☐	Enzyme	
☐	Transducer	
☐	Electronics	

Click to Save Answer & Move to Next Question



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BT505:Quiz No2

Quiz Start Time: 03:19 AM, 10 February 2021

Question # 7 of 10 (Start time: 03:24:19 AM, 10 February 2021)

Total Marks: 1

_____ is a device that can perform the functions of a laboratory on a single chip of only millimetres to a few square centimetres in size.

Select the correct option

☒	Lab on a chip	Answer solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com	
☐	Microfluidics		
☐	SELEX		
☐	Raman Spectroscopy		

Click to Save Answer & Move to Next Question



BT505:Quiz No2

Quiz Start Time: 03:19 AM, 10 February 2021

Question # 8 of 10 (Start time: 03:24:52 AM, 10 February 2021)

Total Marks: 1

Chemical and Biological antibody fragmentation utilizes reducing agents to break the _____ bonds within the hinge region.

Select the correct option

☐	Hydrogen		
☒	Disulfide	Answer solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com	
☐	Methane		
☐	Nitrogen		

Click to Save Answer & Move to Next Question



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BT505:Quiz No2

Quiz Start Time: 03:19 AM, 10 February 2021

Question # 9 of 10 (Start time: 03:25:24 AM, 10 February 2021)

Total Marks: 1

Each nucleosome is composed of DNA wound 1.65 times around _____ histone proteins.

Select the correct option

☐	4	
☐	6	
☒	8	Answer solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com
☐	10	

Click to Save Answer & Move to Next Question



BT505:Quiz No2

Quiz Start Time: 03:19 AM, 10 February 2021

Question # 10 of 10 (Start time: 03:26:31 AM, 10 February 2021)

Total Marks: 1

The binding of DNA the complementary DNA or RNA sequence is called _____.

Select the correct option

☐	Replication	
☐	Transcription	
☐	Transduction	
☒	Hybridization	Answer solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com

Click to Save Answer & Move to Next Question



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BT505:Quiz No2

Quiz Start Time: 03:04 AM, 10 February 2021

Question # 1 of 10 (Start time: 03:04:01 AM, 10 February 2021)

Total Marks: 1

The baseline lactate level in blood ranges from _____ mmol/l at rest.

Select the correct option

☒	0.5 to 1.5	Answer solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com	
☐	1.5 to 2.0		
☐	2.5 to 3.0		
☐	4.0 to 4.5		

Click to Save Answer & Move to Next Question



BT505:Quiz No2

Quiz Start Time: 03:04 AM, 10 February 2021

Question # 2 of 10 (Start time: 03:04:48 AM, 10 February 2021)

Total Marks: 1

Histones are abundant in _____.

Select the correct option

☐	Glutamine, Alanine		
☒	Lysine, Arginine	Answer solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com	
☐	Valine, Proline		
☐	Valine, Lysine		

Click to Save Answer & Move to Next Question



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BT505:Quiz No2

Quiz Start Time: 03:04 AM, 10 February 2021

Question # 3 of 10 (Start time: 03:06:05 AM, 10 February 2021)

Total Marks: 1

_____ are the chief protein components of chromatin, acting as spools around which DNA winds, and playing a role in gene regulation.

Select the correct option

☒	Histone	Answer solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com	/
☐	Biotin		/
☐	Riboflavin		/
☐	Albumin		/

Click to Save Answer & Move to Next Question



BT505:Quiz No2

Quiz Start Time: 03:04 AM, 10 February 2021

Question # 4 of 10 (Start time: 03:06:44 AM, 10 February 2021)

Total Marks: 1

The optimal pH of enzyme horseradish peroxidase is _____.

Select the correct option

☐	4.0-4.5	Answer solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com	/
☐	5.0-5.5		/
☒	6.0-6.5		/
☐	7.0-7.5		/

Click to Save Answer & Move to Next Question



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BT505:Quiz No2

Quiz Start Time: 03:04 AM, 10 February 2021

Question # 5 of 10 (Start time: 03:07:16 AM, 10 February 2021)

Total Marks: 1

When developing a new ELISA for a specific antigen, the first step is to _____ the ELISA.

Select the correct option

☒	Optimize	Answer solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com	/
☐	Immobilize		/
☐	Adsorb		/
☐	Capping		/

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



BT505:Quiz No2

Quiz Start Time: 03:04 AM, 10 February 2021

Question # 6 of 10 (Start time: 03:09:18 AM, 10 February 2021)

Total Marks: 1

An increase of one base pair in DNA-PNA duplex increases the thermal stability of the complex at least upto _____ °C , as compared to DNA/DNA hybrids.

Select the correct option

☒	1	Answer solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com	/
☐	2		/
☐	3		/
☐	4		/

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



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BT505:Quiz No2

Quiz Start Time: 03:04 AM, 10 February 2021

Question # 7 of 10 (Start time: 03:09:47 AM, 10 February 2021)

Total Marks: 1

Antibody IgG, has _____ high affinity binding sites.

Select the correct option

☒	2	Answer solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com	/
☐	3		/
☐	4		/
☐	5		/

Click to Save Answer & Move to Next Question



BT505:Quiz No2

Quiz Start Time: 03:04 AM, 10 February 2021

Question # 8 of 10 (Start time: 03:10:33 AM, 10 February 2021)

Total Marks: 1

_____ are oligonucleotide hybridization probes that can report the presence of specific nucleic acids in homogeneous solutions.

Select the correct option

☐	Molecular Beacons	/
☐	Biophotonics	/
☒	Aptamers Answer solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com	/
☐	Epitope	/

Click to Save Answer & Move to Next Question



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BT505:Quiz No2

Quiz Start Time: 03:04 AM, 10 February 2021

Question # 9 of 10 (Start time: 03:11:44 AM, 10 February 2021)

Total Marks: 1

_____ plays main role in the evaporation of water.

Select the correct option

☐	Flower	
☐	Vascular Bundles	
☒	Stomata	Answer solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com
☐	Carpel	

Click to Save Answer & Move to Next Question



BT505:Quiz No2

Quiz Start Time: 03:04 AM, 10 February 2021

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

Total Marks: 1

In ELISA, the modified form of _____ is used for immobilization

Select the correct option

☒	Polystyrene	Answer solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com
☐	Polythene	
☐	Polyvinyl chloride	
☐	Neoprene	

Click to Save Answer & Move to Next Question



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BT505:Quiz No2

Quiz Start Time: 03:34 AM, 10 February 2021

Question # 1 of 10 (Start time: 03:34:17 AM, 10 February 2021)

Total Marks: 1

_____ is composed of DNA wound 1.65 times around eight histone proteins.

Select the correct option

☒	Nucleosome	Answer solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com	
☐	Nucleus		
☐	Nucleolus		
☐	Nucleotide		

Click to Save Answer & Move to Next Question



BT505:Quiz No2

Quiz Start Time: 03:34 AM, 10 February 2021

Question # 2 of 10 (Start time: 03:34:36 AM, 10 February 2021)

Total Marks: 1

The diploid cell has about _____ micrometers of chromatin.

Select the correct option

☐	75	Answer solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com	
☒	90		
☐	100		
☐	150		

Click to Save Answer & Move to Next Question



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BT505:Quiz No2

Quiz Start Time: 03:34 AM, 10 February 2021

Question # 3 of 10 (Start time: 03:35:38 AM, 10 February 2021)

Total Marks: 1

_____ between protein helix and Phosphate groups of DNA happen during binding of DNA with Histones.

Select the correct option

☒	Polar Interactions	Answer solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com	
☐	Non-Polar interaction		
☐	Hydrogen Bonding		
☐	Salt Bridge		

Click to Save Answer & Move to Next Question



BT505:Quiz No2

Quiz Start Time: 03:34 AM, 10 February 2021

Question # 4 of 10 (Start time: 03:36:23 AM, 10 February 2021)

Total Marks: 1

Molecular weight of Green Fluorescent Protein is _____ kDa.

Select the correct option

☐	20.5	Answer solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com	
☐	23		
☒	26.9		
☐	40.7		

Click to Save Answer & Move to Next Question



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BT505:Quiz No2

Quiz Start Time: 03:34 AM, 10 February 2021

Question # 5 of 10 (Start time: 03:37:03 AM, 10 February 2021)

Total Marks: 1

Monoclonal Antibodies produced against human chorionic gonadotropin are used for detecting the _____.

Select the correct option

☐	Cancer	
☐	Diabetes	
☒	Pregnancy	Answer solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com
☐	Cholesterol	

Click to Save Answer & Move to Next Question



BT505:Quiz No2

Quiz Start Time: 03:34 AM, 10 February 2021

Question # 6 of 10 (Start time: 03:37:44 AM, 10 February 2021)

Total Marks: 1

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

Select the correct option

☐	3.8	
☐	5.5	
☐	6	
☒	7.4	Answer solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com

Click to Save Answer & Move to Next Question



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BT505:Quiz No2

Quiz Start Time: 03:34 AM, 10 February 2021

Question # 7 of 10 (Start time: 03:38:39 AM, 10 February 2021)

Total Marks: 1

Antibody IgG, has _____ high affinity binding sites.

Select the correct option

☒	2	Answer solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com	/
☐	3		/
☐	4		/
☐	5		/

Click to Save Answer & Move to Next Question



BT505:Quiz No2

Quiz Start Time: 03:34 AM, 10 February 2021

Question # 8 of 10 (Start time: 03:38:49 AM, 10 February 2021)

Total Marks: 1

Aptamers bind to their target by determining the _____ structure.

Select the correct option

☐	Primary		/
☐	Secondary		/
☒	Tertiary	Answer solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com	/
☐	Quaternary		/

Click to Save Answer & Move to Next Question



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BT505:Quiz No2

Quiz Start Time: 03:34 AM, 10 February 2021

Question # 9 of 10 (Start time: 03:39:28 AM, 10 February 2021)

Total Marks: 1

The cell wall of Gram-positive bacteria comprises a thick layer of _____.

Select the correct option

☒	Peptidoglycan	Answer solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com	/
☐	Cellulose		/
☐	Chitin		/
☐	Lipopolysaccharide		/

Click to Save Answer & Move to Next Question



BT505:Quiz No2

Quiz Start Time: 03:34 AM, 10 February 2021

Question # 10 of 10 (Start time: 03:39:37 AM, 10 February 2021)

Total Marks: 1

Escherichia virus T4 is a species of bacteriophages that infect _____ bacteria.

Select the correct option

☐	Spirochete		/
☒	Escherichia coli	Answer solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com	/
☐	Staphylococcus Aureus		/
☐	Streptococcus		/

Click to Save Answer & Move to Next Question



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BT505:Quiz No2

Quiz Start Time: 03:27 AM, 10 February 2021

Question # 1 of 10 (Start time: 03:27:48 AM, 10 February 2021)

Total Marks: 1

Histones are _____ proteins.

Select the correct option

☐	Neutral	
☐	Acidic	
☒	Basic	Answer solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com
☐	None	

Click to Save Answer & Move to Next Question



BT505:Quiz No2

Quiz Start Time: 03:27 AM, 10 February 2021

Question # 2 of 10 (Start time: 03:28:23 AM, 10 February 2021)

Total Marks: 1

_____ bases of DNA acts as a proton donor and electro-activity improves the signals.

Select the correct option

☐	Adenine	
☒	Guanine	Answer solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com
☐	Cytosine	
☐	Thymine	

Click to Save Answer & Move to Next Question



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BT505:Quiz No2

Quiz Start Time: 03:27 AM, 10 February 2021

Question # 3 of 10 (Start time: 03:28:50 AM, 10 February 2021)

Total Marks: 1

IgM is a pentamer unit with ten antigen binding sites, but only _____ are functional.

Select the correct option

☐	3	
☐	4	
☒	5	Answer solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com
☐	6	

Click to Save Answer & Move to Next Question



BT505:Quiz No2

Quiz Start Time: 03:27 AM, 10 February 2021

Question # 4 of 10 (Start time: 03:29:21 AM, 10 February 2021)

Total Marks: 1

The cell wall of Gram-positive bacteria comprises a thick layer of _____.

Select the correct option

☒	Peptidoglycan	Answer solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com
☐	Cellulose	
☐	Chitin	
☐	Lipopolysaccharide	

Click to Save Answer & Move to Next Question



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BT505:Quiz No2

Quiz Start Time: 03:27 AM, 10 February 2021

Question # 5 of 10 (Start time: 03:29:59 AM, 10 February 2021)

Total Marks: 1

Impedance immuno biosensors are based on the determination of _____ as a signal for the detection of Analyte.

Select the correct option

☐	Current	
☐	Light	
☒	Resistance	Answer solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com
☐	Temperature	



Click to Save Answer & Move to Next Question



BT505:Quiz No2

Quiz Start Time: 03:27 AM, 10 February 2021

Question # 6 of 10 (Start time: 03:31:44 AM, 10 February 2021)

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	Answer solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com
☐	3	
☐	4	

Click to Save Answer & Move to Next Question



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BT505:Quiz No2

Quiz Start Time: 03:27 AM, 10 February 2021

Question # 7 of 10 (Start time: 03:32:20 AM, 10 February 2021)

Total Marks: 1

DNA biosensors are based on the employment of DNA molecule as a _____

Select the correct option

☒	Biorecognition element	Answer solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com
☐	Enzyme	
☐	Transducer	
☐	Electronics	

Click to Save Answer & Move to Next Question



BT505:Quiz No2

Quiz Start Time: 03:27 AM, 10 February 2021

Question # 8 of 10 (Start time: 03:32:32 AM, 10 February 2021)

Total Marks: 1

Antibody IgM is a pentamer unit with _____ antigen binding sites.

Select the correct option

☐	7	
☒	10	Answer solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com
☐	12	
☐	15	

Click to Save Answer & Move to Next Question



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BT505:Quiz No2

Quiz Start Time: 03:27 AM, 10 February 2021

Question # 9 of 10 (Start time: 03:33:01 AM, 10 February 2021)

Total Marks: 1

Histones are abundant in _____.

Select the correct option

☐	Glutamine, Alanine	
☒	Lysine, Arginine	Answer solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com
☐	Valine, Proline	
☐	Valine, Lysine	

Click to Save Answer & Move to Next Question



BT505:Quiz No2

Quiz Start Time: 03:27 AM, 10 February 2021

Question # 10 of 10 (Start time: 03:33:11 AM, 10 February 2021)

Total Marks: 1

The baseline lactate level in blood ranges from _____ mmol/l at rest.

Select the correct option

☒	0.5 to 1.5	Answer solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com
☐	1.5 to 2.0	
☐	2.5 to 3.0	
☐	4.0 to 4.5	

Click to Save Answer & Move to Next Question



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