

# VU Medical Zone

BT 301 Current Final terms Fall 2020

Question No : 7 of 37

The term RT-PCR is used for \_\_\_\_\_ PCR.

Answer ( Please select your correct option )


Real Time

Reverse Transcriptase

Real Transcriptase

Reverse Time

Start Time: 2:36 PM

**87:00**  
Time Left 

Question Summary : ( Attempted Question  )

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17

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Effort By Amaan Khan

# VU Medical Zone

Question No : 17 of 37

The genome size of *nanoarchaeum equitans* is \_\_\_\_\_ Mb.

Answer ( Please select your correct option )

0.39

C

0.49

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

0.59

C

0.69

C

Start Time: 2:36 PM

85:00

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BT301 Introduction to Biotechnology

Question No : 11 of 37

In \_\_\_\_\_, mRNA quantification can be done on agarose gel after amplification.

Answer ( Please select your correct option )

Competitor RT-PCR

RFLP

Real-Time PCR

Inverse PCR

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

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11

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# VU Medical Zone

BT301 Introduction to Biotechnology

Question No : 29 of 37

Variable lengths of DNA upto about 5 kbp, can be cloned in \_\_\_\_\_

Answer ( Please select your correct option )

Cosmid

Phagemid

Bacteriophage M13

Lambda Phage

Answer solved by Amaan Khan

Contact: 0305-4716616

Email: maniamaan2@gmail.com

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83:00

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## BT301 Introduction to Biotechnology

Question No : 30 of 37

A shuttle vector is \_\_\_\_\_.

**Answer solved by Amaan Khan**

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**Email: maniamaan2@gmail.com**

**Answer ( Please select your correct option )**

A vector that can be used with two/more systems

Hybrid vector

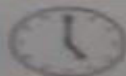
Mutated yeast plasmid

The transformed cell further used for transformation.

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Question Summary : ( Attempted Question )

1 2 3 4 5 6 7 8 9 10 11 12 13

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# VU Medical Zone

BT301 Introduction to Biotechnology

Question No : 24 of 37

A type of PCR reaction in which segments of DNA that are amplified are random is \_\_\_\_\_

Answer ( Please select your correct option )

RT-PCR

AFLP

RAPD

Real Time PCR

Answer solved by Amaan Khan  
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BT301 Introduction to Biotechnology

Question No : 9 of 37

In -----, microbial population is studied by extracting DNA from environmental samples

Answer ( Please select your correct option )

Epigenomics

Episomic

Metagenomics

Proteomics

Answer solved by Amaan Khan

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BT301 Introduction to Biotechnology

Question No : 23 of 37

The nuclear genome of Yeast consists of \_\_\_\_\_ chromosomes

Answer ( Please select your correct option )

15

Answer solved by Amaan Khan

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Email: maniamaan2@gmail.com

16

17

18

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# VU Medical Zone

BT301 Introduction to Biotechnology

Question No : 2 of 37

One complete turn of DNA encodes \_\_\_\_\_ amino acids.

Answer ( Please select your correct option )

6.3

3.6

36

63

Answer solved by Amaan Khan  
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# VU Medical Zone

Question No : 16 of 37

The rate of synthesis of a particular protein will depend on the steady-state of \_\_\_\_\_ in the cell.

Answer ( Please select your correct option )

mRNA

Answer solved by Amaan Khan  
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rRNA

tRNA

siRNA

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16

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BT301 Introduction to Biotechnology

Question No : 10 of 37

In \_\_\_\_\_ single base mismatched between the amplification primer and the template amplification.

Answer ( Please select your correct option )

in-vitro mutagenesis

PCR-site directed mutagenesis

Restriction enzyme mediated mutagenesis

in-vivo mutagenesis

Answer solved by Amaan Khan  
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BT301 Introduction to Biotechnology

Question No : 29 of 37

Variable lengths of DNA upto about 5 kbp, can be cloned in \_\_\_\_\_

Answer ( Please select your correct option )

Cosmid

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Bacteriophage M13

Lambda Phage

Answer solved by Amaan Khan  
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Question Summary : ( Attempted Question  )

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## BT301 Introduction to Biotechnology

Question No : 14 of 37

Sequences that are read beyond 400 bp contains an average of

Answer ( Please select your correct option )

2.8% accuracy

3.2% accuracy

2.8% error

3.2% error

Answer solved by Amaan Khan  
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Email: maniamaan2@gmail.com

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BT301 Introduction to Biotechnology

Question No : 5 of 37

When distances in genome mapping are calculable in terms of units then this map is known \_\_\_\_\_

Answer ( Please select your correct option )

linkage map

Physical map

tandem repeat map

genome wide map

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

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Question Summary : ( Attempted Question )

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BT301 Introduction to Biotechnology

Question No : 18 of 37

DNA Microarray was used for the first time in 1977 for the genome expression of the \_\_\_\_\_ cell

Answer ( Please select your correct option )

Yeast

Bacterial

Human

Plant

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

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Question Summary : ( Attempted Question )

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# VU Medical Zone

BI 301 Introduction to Biotechnology

Question No : 7 of 37

The term RT-PCR is used for \_\_\_\_\_ PCR.

Answer ( Please select your correct option )

Real Time

Reverse Transcriptase

Real Transcriptase

Reverse Time

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

Start Time: 2:36 PM

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Question Summary : ( Attempted Question )

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# VU Medical Zone

BT301 Introduction to Biotechnology

Question No : 21 of 37

A term used to describe an approach which allows the isolation of gene sequences whose location is known is called \_\_\_\_\_

Answer ( Please select your correct option )

Immunochemical screening

Chromosome walking

Chromosome Jumping

Crossing over

Answer solved by Amaan Khan

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## BT301 Introduction to Biotechnology

Question No : 20 of 37

The complete set of metabolites found in each cell is known as the \_\_\_\_\_

Answer ( Please select your correct option )

Metabolome

Answer solved by Amaan Khan  
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Genome

Ribosome

Metabolism

Start Time: 2:36 PM

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Question Summary : ( Attempted Question )

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BT301 Introduction to Biotechnology

Question No : 20 of 37

The complete set of metabolites found in each cell is known as the \_\_\_\_\_

Answer (Please select your correct option)

Metabolome

**Answer solved by Amaan Khan**  
**Contact: 0305-4716616**  
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Genome

Ribosome

Metabolism

Start Time: 2:36 PM

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Question Summary : ( Attempted Question )

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

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# VU Medical Zone

Question No : 27 of 37

The molecular weight of pBR322 vector is \_\_\_\_\_

Answer ( Please select your correct option )

4361 bp

5361 bp

6361 bp

7361 bp

Answer solved by Amaan Khan  
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Email: maniamaan2@gmail.com

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Question Summary : ( Attempted Question )

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## BT301 Introduction to Biotechnology

Question No : 14 of 37

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Answer ( Please select your correct option )

2.8% accuracy

3.2% accuracy

2.8% error

3.2% error

Answer solved by Amaan Khan  
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Email: maniamaan2@gmail.com

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**BT301** Introduction to Biotechnology

Question No : 12 of 37

Technique used to identify individuals by characteristics of their DNA sequences is called

Answer ( Please select your correct option )

DNA profiling

DNA fingerprinting

DNA profiling and fingerprinting

Linkage mapping

**Answer solved by Amaan Khan**

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**Email: maniamaan2@gmail.com**

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BT301 Introduction to Biotechnology

Question No : 11 of 37

In \_\_\_\_\_, mRNA quantification can be done on agarose gel after amplification.

Answer ( Please select your correct option )

Competitor RT-PCR

RFLP

Real-Time PCR

Inverse PCR

Answer solved by Amaan Khan

Contact: 0305-4716616

Email: maniamaan2@gmail.com

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## BT301 Introduction to Biotechnology

Question No : 9 of 37

In \_\_\_\_\_, microbial population is studied by extracting DNA from environmental samples

Answer ( Please select your correct option )

Epigenomics

Episome

Metagenomics

Proteomics

Answer solved by Amaan Khan  
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T301 Introduction to Biotechnology

Question No : 22 of 37

A single circular chromosome composed of DNA with associated proteins is typically

Answer ( Please select your correct option )

Bacteria

**Answer solved by Amaan Khan**  
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Yeast

Virus

Fungi

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22

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BT301 Introduction to Biotechnology

Question No : 2 of 37

One complete turn of DNA encodes \_\_\_\_\_ amino acids.

Answer ( Please select your correct option )

6.3

3.6

36

63

Answer solved by Amaan Khan  
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## BT301 Introduction to Biotechnology

Question No : 4 of 37

Happy mapping used in genome mapping is an entirely \_\_\_ technique

Answer ( Please select your correct option )

in-vivo

in-silico

in-situ

in-vitro

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

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BT301 Introduction to Biotechnology

Question No : 1 of 37

Nucleotides are joined with ..... bond to form a polymeric molecule

Answer ( Please select your correct option )

Covalent

Ionic

Hydrogen

Phosphodiester

Answer solved by Amaan Khan

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Email: maniamaan2@gmail.com

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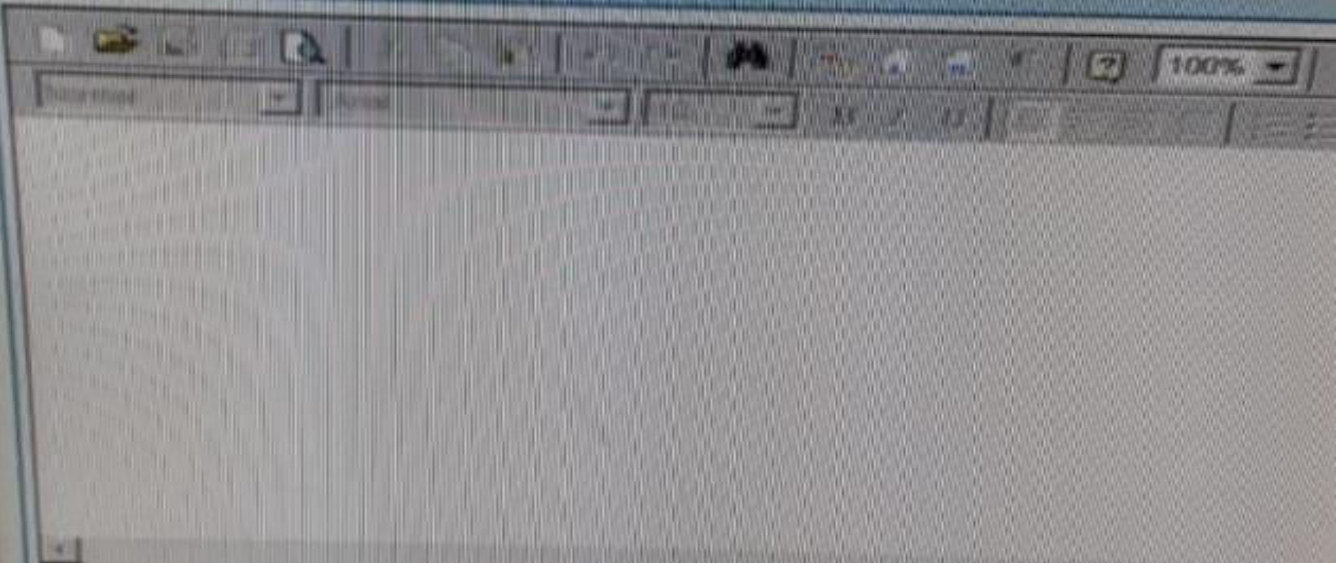
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**BT301** Introduction to Biotechnology

Question No : 17 of 17

Detail note on PCR , types and its applications

Answer ( [Please click here to Add Answer](#) )



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**BT301** Introduction to Biotechnology

Question No : 36 of 37

How is PCR playing a significant role in the field of medicine?

Answer ( [Please click here to Add Answer](#) )

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- 17

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BT301 Introduction to Biotechnology

Question No : 21 of 37

A term used to describe an approach which allows the isolation of gene sequences whose location on a chromosome is known is called \_\_\_\_\_.

Answer ( Please select your correct option )

Immunochemical screening

Chromosome walking

Answer solved by Amaan Khan

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Email: maniamaan2@gmail.com

Chromosome Jumping

Crossing over

Start Time: 2:36 PM

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Question Summary : ( Attempted Question )

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T301 Introduction to Biotechnology

Question No : 22 of 37

A single circular chromosome composed of DNA with associated proteins is typically

Answer ( Please select your correct option )

Bacteria

Answer solved by Amaan Khan  
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Yeast

Virus

Fungi

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Question Summary : ( Attempted Question  )

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## BT301 Introduction to Biotechnology

Question No : 23 of 37

The nuclear genome of Yeast consists of \_\_\_\_\_ chromosomes.

Answer ( Please select your correct option )

15

16 **Answer solved by Amaan Khan**  
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17

18

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BT301 Introduction to Biotechnology

Question No : 26 of 37

Where are the R groups are arranged in a beta pleated sheets?

Answer ( Please select your correct option )

inner side

outer side

embedded

outer in the ends

Answer solved by Amaan Khan  
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**BT301** Introduction to Biotechnology

Question No : 25 of 37

Sequence-tagged sites (STS) are mainly used to map the \_\_\_\_\_.

Answer ( Please select your correct option )

DNA

**Answer solved by Amaan Khan**  
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**Email: maniamaan2@gmail.com**

Enzymes

Proteins

Both "a" and "b"

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## BT301 Introduction to Biotechnology

Question No : 32 of 37

How are oligonucleotide chips being manufactured?

Answer ( [Please click here to Add Answer](#) )

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**BT301** Introduction to Biotechnology

Question No : 28 of 37

The replication of Lambda phage DNA molecule is associated with which step in the infection cycle of a bacteriophage?

Answer ( Please select your correct option )

First step

Answer solved by Amaan Khan

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Second step

Third step

Preparation step

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Question Summary : ( Attempted Question )

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BT301 Introduction to Biotechnology

Question No : 24 of 37

A type of PCR reaction in which segments of DNA that are amplified are random is \_\_\_\_\_

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AFLP

RAPD

Real Time PCR

Answer solved by Amaan Khan  
Contact: 0305-4716616  
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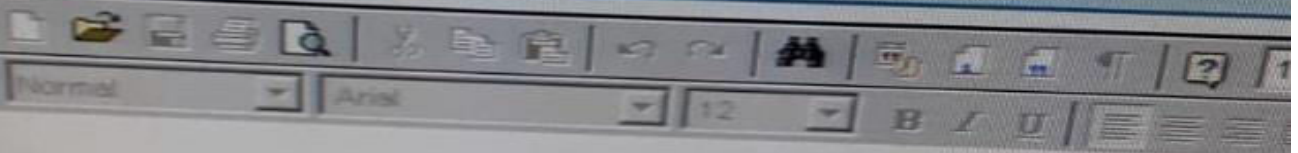
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## BT301 Introduction to Biotechnology

Question No : 31 of 37

What is the epitope?

Answer ( [Please click here to Add Answer](#) )



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Question Summary : ( Attempted Question )

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VU Examination System

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Question No : 27 of 37

The molecular weight of pBR322 vector is \_\_\_\_\_

Answer ( Please select your correct option )

4361 bp

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

5361 bp

6361 bp

7361 bp

Start Time: 2:36 PM

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Question Summary : ( Attempted Question )

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

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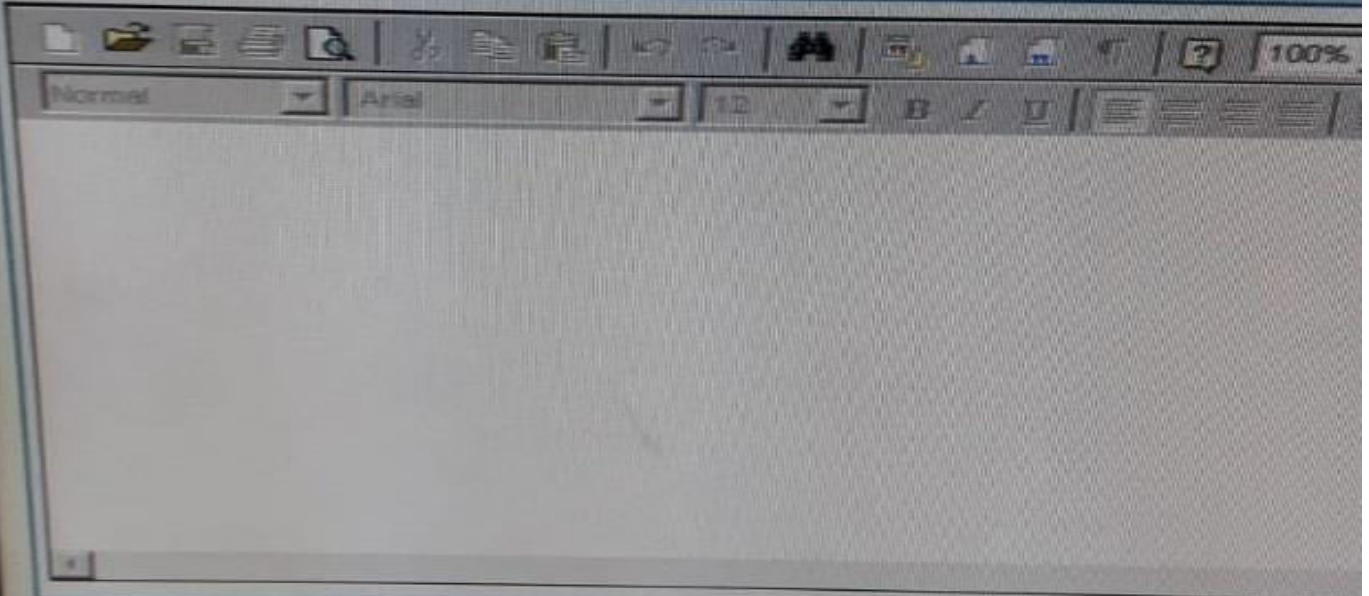
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**BT301** Introduction to Biotechnology

Question No : 34 of 37

What are the disadvantages of RT-PCR?

Answer ( [Please click here to Add Answer](#) )



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Question Summary : ( Attempted Question  )

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## BT301 Introduction to Biotechnology

Question No : 30 of 37

A shuttle vector is \_\_\_\_\_

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

Answer ( Please select your correct option )

- A vector that can be used with two/more systems
- Hybrid vector
- Mutated yeast plasmid
- The transformed cell further used for transformation

Start Time: 2:36 PM

**83:00**

Time Left



Question Summary : ( Attempted Question )

1 2 3 4 5 6 7 8 9 10 11 12 13

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BT301 Introduction to Biotechnology

Question No : 35 of 37

Write a note on DNA sequence databases.

Answer ( Please click here to Add Answer )



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Question Summary : ( Attempted Question  )

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# VU Medical Zone

**BT301** Introduction to Biotechnology

Question No : 6 of 37

The shelf life of \_\_\_\_\_ vector is high as compared to other vectors.

Answer ( Please select your correct option )

BACs

YACs

$\lambda$ -phage

PACs

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

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Question Summary : ( Attempted Question )

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19

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# VU Medical Zone

**BT301** Introduction to Biotechnology

Question No : 33 of 37

Briefly explain the process of Biopanning.

Answer ( [Please click here to Add Answer](#) )

Rich text editor toolbar with icons for text formatting (bold, italic, underline, strikethrough), alignment, list creation, and zooming. The zoom level is set to 100%.

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**BT301** Introduction to Biotechnology

Question No : 26 of 37

Where are the R groups are arranged in a beta pleated sheets?

Answer ( Please select your correct option )

inner side

outer side

embedded

outer in the ends

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# VU Medical Zone

BT301 Introduction to Biotechnology

Question No : 29 of 37

Variable lengths of DNA upto about 5 kbp, can be cloned in \_\_\_\_\_

Answer ( Please select your correct option )

Cosmid

Phagemid

Bacteriophage M13

Lambda Phage

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

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29

Question Summary : ( Attempted Question  )

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# VU Medical Zone

BT301 Introduction to Biotechnology

Question No : 25 of 37

Sequence-tagged sites (STS) are mainly used to map the \_\_\_\_\_

Answer ( Please select your correct option )

DNA

Answer solved by Amaan Khan  
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Email: maniamaan2@gmail.com

Enzymes

Proteins

Both "a" and "b"

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Question Summary : ( Attempted Question  )

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17

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**BT301** Introduction to Biotechnology

Question No : 10 of 37

In \_\_\_\_\_ single base mismatched between the amplification primer and the template amplification.

Answer ( Please select your correct option )


in-vitro mutagenesis

PCR-site directed mutagenesis

Restriction enzyme mediated mutagenesis

in-vivo mutagenesis

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Question Summary : ( Attempted Question  )

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Effort By Amaan Khan

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BT301 Introduction to Biotechnology

Question No : 3 of 37

Phage display is the technology that allows expression of \_\_\_\_\_ on the surface of phage particle.

Answer ( Please select your correct option )

Chloroplast genes

mitochondrial genes

Exogenous polypeptides

Endogenous genes

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

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Question Summary : ( Attempted Question )

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## BT301 Introduction to Biotechnology

Question No : 19 of 37

Robert Koch and Louis Pasteur developed the first vaccines in \_\_\_\_\_

Answer ( Please select your correct option )

- 1885
- 1885
- 1890
- 1897

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Question Summary : ( Attempted Question )

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
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# VU Medical Zone

BT301 Introduction to Biotechnology

Question No : 13 of 37

Somatostatin protein is prevented from degradation by \_\_\_\_\_ ?

Answer ( Please select your correct option )

Beta cellulase

Gamma galactosidase

Alpha galactosidase

Beta galactosidase

Answer solved by Amaan Khan  
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Email: maniamaan2@gmail.com

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86:00

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Go back to question

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BT301 Introduction to Biotechnology

Question No : 15 of 37

There are \_\_\_\_\_ broad classes of restriction enzymes.

Answer ( Please select your correct option )

2

3

4

Answer solved by Amaan Khan  
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Email: maniamaan2@gmail.com

5

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# VU Medical Zone

Question No : 16 of 37

The rate of synthesis of a particular protein will depend on the steady-state of \_\_\_\_\_ in the cell.

Answer ( Please select your correct option )

mRNA

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

rRNA

tRNA

siRNA

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Question Summary : ( Attempted Question  )

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# VU Medical Zone

101 Introduction to Biotechnology

Question No : 8 of 37

to detect the clone with target protein using immunological screening the target protein is

Answer ( Please select your correct option )

Antibody

**Answer solved by Amaan Khan**

**Contact: 0305-4716616**

**Email: maniamaan2@gmail.com**

Antigenic Determinant

mRNA

DNA vector

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Question Summary : ( Attempted Question )

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BT301 Introduction to Biotechnology

Question No : 3 of 37

Phage display is the technology that allows expression of \_\_\_\_\_ on the surface of phage particle.

Answer ( Please select your correct option )

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mitochondrial genes

Exogenous polypeptides

Endogenous genes

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Question Summary : ( Attempted Question )

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