

VIRTUAL UNIVERSITY OF PAKISTAN

A Good Education is a Foundation For a Better Future

CORRECT ANSWER SOLVED BY HADI
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TEAM HADI(VU LAHORE)

MID TERM PAST PAPER

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WARNING: Team HADI is not responsible for any mistake or wrong answer. All students reading and using this document may check and confirm the answers at their own.



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Best of luck!



Question # 16 of 30 (Start time: 03:00:49 PM, 06 January 2021)

Total Marks: 1

pSC101 is natural plasmid from _____?

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Select the correct option

☒	Salmonella panama
☐	E.coli
☐	S.aureus
☐	Non of above

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Question # 30 of 30 (Start time: 03:09:44 PM, 06 January 2021)

Total Marks: 1

The Change in the frequency of a gene variant (allele) in a population due to random sampling of organisms is called _____

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Select the correct option

☐	Gene flow	
☒	Genetic drift	
☐	Mutation	
☐	Non-random mating	

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Question # 18 of 30 (Start time: 03:02:25 PM, 06 January 2021)

Total Marks: 1

The temperature at which denaturation of DNA double helix takes place is: _____

Select the correct option

☐	54°	
☐	60°	
☐	74°	
☒	94°	↩

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Question # 29 of 30 (Start time: 03:09:19 PM, 06 January 2021)

Total Marks: 1

Polymerase enzyme used in PCR is extracted from _____

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Select the correct option

☐	Escherichia coli	
☐	Homo sapiens	
☒	Thermus aquaticus	←
☐	Saccharomyces cerevisiae	

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Question # 26 of 30 (Start time: 03:07:08 PM, 06 January 2021)

Total Marks: 1

T4 DNA ligase requires _____ as cofactor for working?

Select the correct option

☐	ADP	
☒	ATP	←
☐	NAD ⁺	
☐	NADH	

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Question # 6 of 30 (Start time: 02:53:29 PM, 06 January 2021)

Total Marks: 1

The sugar in RNA is _____

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Select the correct option

☐	Fructose	
☒	Ribose	←
☐	Hexose	
☐	Deoxyribose	

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Question # 2 of 30 (Start time: 02:50:25 PM, 06 January 2021)

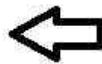
Total Marks: 1

The length of one turn of DNA is _____

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Select the correct option

☒	3.4 Å	
☐	34 Å	
☐	20 Å	
☐	24 Å	

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Question # 22 of 30 (Start time: 03:04:46 PM, 06 January 2021)

Total Marks: 1

Restriction enzymes are also called _____

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Select the correct option

- | | | |
|----------------------------------|---------------------------|---|
| ☐ | Restriction sites | |
| ☒ | Restriction endonucleases | ← |
| ☐ | Restriction polymerases | |
| ☐ | Endonucleases | |

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Question # 3 of 30 (Start time: 02:50:51 PM, 06 January 2021)

Total Marks: 1

The _____ is the most useful R-M system because the Type II enzymes recognize a defined sequence and cut within it.

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Select the correct option

☐	Type I	
☒	Type II	←
☐	Type III	
☐	Type IIs	

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Question # 12 of 30 (Start time: 02:58:03 PM, 06 January 2021)

Total Marks: 1

A segment of DNA has 120 adenine and 120 cytosine bases. The total number of nucleotides present in the segment is _____

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Select the correct option

☐	60	
☐	120	
☐	240	
☒	480	

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Question # 10 of 30 (Start time: 02:56:32 PM, 06 January 2021)

Total Marks: 1

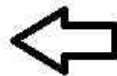
The technique which separates charged particles using electric field is _____

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Select the correct option

☐	Hydrolysis	
☐	Protein denaturing	
☐	Protein synthesis	
☒	Electrophoresis	

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Question # 14 of 30 (Start time: 02:58:58 PM, 06 January 2021)

Total Marks: 1

Methods for joining DNA molecules, makes use of the annealing of complementary ____?

Select the correct option

- | | | |
|----------------------------------|-------------------------|--|
| ☐ | None of above | |
| ☐ | Both a and b | |
| ☐ | Heteropolymer sequences | |
| ☒ | Homopolymer sequences | |



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Question # 19 of 30 (Start time: 03:03:04 PM, 06 January 2021)

Total Marks: 1

The most commonly used enzyme for joining the blunt end DNA molecules is _____.

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Select the correct option

☐	Alkaline phosphatase	
☒	T4 DNA ligase	←
☐	EcoR1	
☐	HindIII	

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Question # 7 of 30 (Start time: 02:53:53 PM, 06 January 2021)

Total Marks: 1

pBR322 is used as cloning vehicle which contains ____ resistant genes

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Select the correct option

☐	ampicillin	
☐	tetracycline	
☒	ampicillin & tetracycline	
☐	kanamycin	

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Question # 24 of 30 (Start time: 03:06:10 PM, 06 January 2021)

Total Marks: 1

The entire polypeptide forms a three-dimensional structure known as _____?

Select the correct option

☐	Primary
☐	Secondary
☒	Tertiary
☐	Quaternary

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