

VIRTUAL UNIVERSITY OF PAKISTAN

A Good Education is a Foundation For a Better Future

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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 # 17 of 30 (Start time: 08:44:02 PM, 21 June 2021)

Total Marks: 1

The Trouble with Flat-File Databases

Select the correct option

☒	Small data sets
☐	Data alignment
☐	Matrix of data
☐	The text file format

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Question # 4 of 30 (Start time: 08:19:12 PM, 21 June 2021)

Total Marks: 1

The type of coiling in DNA is

Select the correct option

[Reload Math Equations](#)



Zig-zag



Opposite



Left-handed



Right-handed

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Question # 15 of 30 (Start time: 08:24:29 PM, 21 June 2021)

Total Marks:

Which of the following enzymes attach amino acids to tRNA

Select the correct option

- | | |
|----------------------------------|----------------------------|
| ☐ | Amino acyl-tRNA ligase |
| ☒ | Amino acyl-tRNA synthetase |
| ☐ | Amino acyl-tRNA reductase |
| ☐ | Amino acyl-tRNA synthase |

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Question # 20 of 30 (Start time: 08:45:43 PM, 21 June 2021)

Total Marks: 1

Which one of these is a nucleotide sequence data base?

Select the correct option

- ☐ TREMBL
- ☐ SWISS
- ☒ EMBL
- ☐ PROSITE

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Question # 19 of 30 (Start time: 08:26:38 PM, 21 June 2021)

Total Marks: 1

The stepwise method for solving problems in computer science is called _____

Select the correct option

[Reload Math Equations](#)

☒	Algorithm
☐	Procedure
☐	Sequential design
☐	Flowchart

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Question # 2 of 5 (Start time: 11:23:10 PM, 18 June 2021)

Total Marks: 1

No membrane bounded organelles are present in _____ cells

Select the correct option

- | | |
|----------------------------------|-------------------|
| ☐ | Both a & b |
| ☒ | Prokaryotic cells |
| ☐ | Plant cells |
| ☐ | Eukaryotic cells |

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Question # 23 of 30 (Start time: 08:28:01 PM, 21 June 2021)

Total Marks:

CLUSTALW is used to

[Reload Math Equations](#)

Select the correct option



Optimize existing alignments



All of these



Profile analysis



Create phylogenetic trees

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Question # 11 of 30 (Start time: 08:41:59 PM, 21 June 2021)

Total Marks: 1

Purpose of FASTA:

Select the correct option

☒	Formatting of sequences
☐	Running in the ground
☐	None of the above
☐	Developing protein sequence

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Question # 12 of 30 (Start time: 08:42:16 PM, 21 June 2021)

Total Marks: 1

Which of the following most significantly limits the flexibility of the phi and psi bond angles?

Select the correct option

[Reload Math Equations](#)

- | | |
|----------------------------------|---|
| ☒ | The proton (H atom) attached to the alpha C |
| ☐ | The primary COO group |
| ☐ | The N of the primary NH ₂ group |
| ☐ | The R groups |

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Question # 16 of 30 (Start time: 08:25:26 PM, 21 June 2021)

Total Marks:

A cell may make different sets of proteins at different times or under different conditions.

Select the correct option

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False



True



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Question # 3 of 5 (Start time: 02:31:06 AM, 18 June 2021)

Total Marks:

How many nucleotide bases occur in a nucleic acid:

Select the correct option

☐	Infinite
☐	Four
☐	Six
☒	Five

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Question # 4 of 5 (Start time: 11:18:54 PM, 18 June 2021)

Total Marks: 1

All cells come from _____.

Select the correct option

[Reload Math Equations](#)

☒	Pro-existing cells
☐	Pre-existing tissues
☐	Organisms
☐	Atoms

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Question # 25 of 30 (Start time: 08:47:11 PM, 21 June 2021)

Total Marks: 1

MSA is used to

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Select the correct option

☒	Both a & b
☐	Predict secondary and tertiary structures of new protein sequences
☐	Evaluate evolutionary order of species or "Phylogeny"
☐	None of these

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Question # 10 of 30 (Start time: 08:22:11 PM, 21 June 2021)

Total Marks: 1

Central Dogma represents the relationship between

Select the correct option

[Reload Math Equations](#)

DNA and Protein



DNA, RNA and Protein



RNA and Protein



DNA and RNA

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Question # 7 of 30 (Start time: 08:20:44 PM, 21 June 2021)

Total Marks: 1

FASTA was developed in

Select the correct option

☒	1988	A Good Education is a Foundation For a Better Future CORRECT ANSWER SOLVED BY HADI EMAIL:hadirajputofficial@gmail.com WHATSAPP& CALL:03087122922
☐	1987	
☐	1986	
☐	1999	

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Question # 2 of 30 (Start time: 08:36:48 PM, 21 June 2021)

Total Marks: 1

What is the role of the promoter region in the regulation of gene expression?

Select the correct option

- | | |
|----------------------------------|--|
| ☐ | Bind negative regulators to inhibit gene expression |
| ☐ | Allow for alternative splicing and recombination of genetic components |
| ☒ | Alter gene expression by binding transcription factors |
| ☐ | Recruit RNA polymerase and transcription factors to DNA |

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Question # 9 of 30 (Start time: 08:41:17 PM, 21 June 2021)

Total Marks: 1

DDBJ was established in

Select the correct option

[Reload Math Equations](#)



1986



1999



1982



1984

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Question # 24 of 30 (Start time: 08:46:53 PM, 21 June 2021)

Total Marks: 1

Transfer RNA molecule to which amino acid are attached is _____

Select the correct option

☒	Charged
☐	Replicate
☐	Uncharged
☐	Decompose

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Question # 4 of 30 (Start time: 08:38:19 PM, 21 June 2021)

Total Marks:

MSA used _____ to construct a Guide tree

Select the correct option

[Reload Math Equations](#)

Correlation matrix



None of these



Distance matrix



Binary tree

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Total Marks: 1

When one characteristic or trait expresses itself over the other such a trait is called _____

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Select the correct option

- | | |
|----------------------------------|---------------------|
| ☐ | Most demanded trait |
| ☒ | Dominant trait |
| ☐ | All of these |
| ☐ | First trait |

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Question # 1 of 5 (Start time: 11:21:31 PM, 18 June 2021)

Total Marks: 1

In most of the nucleotides, the phosphate group is attached to which carbon of _____ pentose sugar?

Select the correct option

Reload Math Equations

☒	C-5
☐	C-2
☐	C-1
☐	C-4

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Question # 1 of 30 (Start time: 08:17:00 PM, 21 June 2021)

Total Marks: 1

The smallest particle of an element that still retains its distinctive chemical properties is _____

Select the correct option

☐	Electron
☐	Protons
☒	Atoms
☐	Neutrons

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Question # 14 of 30 (Start time: 08:23:37 PM, 21 June 2021)

Total Marks:

Issues in Data Management are:

Reload Math Equations

Select the correct option

- | | |
|----------------------------------|--|
| ☐ | Data entry, Data updates, Data integrity |
| ☐ | Data alignment |
| ☒ | Both a and b |
| ☐ | Data security, Data accessibility |

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Question # 9 of 30 (Start time: 08:21:56 PM, 21 June 2021)

Total Marks: 1

The expansion of BLAST is

Select the correct option

☐	Beginners Local Alignment Software Tool
☒	Basic Local Alignment Search Tool
☐	Beginners Logical Alignment Search Tool
☐	Beginners Local Alignment Search Tool

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Question # 14 of 30 (Start time: 08:43:07 PM, 21 June 2021)

Total Marks: 1

The stepwise method for solving problems in computer science is called _____

Select the correct option

[Reload Math Equations](#)

- | | |
|----------------------------------|-------------------|
| ☐ | Procedure |
| ☒ | Algorithm |
| ☐ | Flowchart |
| ☐ | Sequential design |

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Question # 11 of 30 (Start time: 08:22:27 PM, 21 June 2021)

Total Marks: 1

Polio virus transcribed RNA from _____

Select the correct option

☐	Protein
☐	DNA
☐	rRNA
☒	RNA

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Question # 5 of 5 (Start time: 11:24:18 PM, 18 June 2021)

Total Marks: 1

Chromatin is composed of

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Select the correct option

☐	Nucleic acid
☐	None of these
☐	Protein
☒	Nucleic acids and protein

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Question # 21 of 30 (Start time: 08:46:03 PM, 21 June 2021)

Total Marks: 1

Friedrich Miescher in 1869 discover:

Select the correct option:

[Reload Math Equations](#)

☒	DNA
☐	Proteins
☐	Chromosomes
☐	Genes

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Question # 7 of 30 (Start time: 08:39:35 PM, 21 June 2021)

Total Marks: 1

The principle driving force for adenylation reaction during the formation of the aminoacyl tRNA is carried out by _____

Select the correct option

☐	Isomerase
☐	Phosphokinase
☒	Synthetase
☐	Pyrophosphatase

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Question # 20 of 30 (Start time: 08:26:56 PM, 21 June 2021)

Total Marks: 1

Both DNA and RNA can form double helices.

Select the correct option

[Reload Math Equations](#)

☒	True
☐	False

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Question # 29 of 30 (Start time: 08:47:43 PM, 21 June 2021)

Total Marks: 1

Hemophilus influenzae is the first sequenced _____ genome

Select the correct option

☒	Prokaryotic
☐	Eukaryotic
☐	Both a & b
☐	Single celled organism

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Question # 5 of 30 (Start time: 08:19:42 PM, 21 June 2021)

Total Marks: 1

Prokaryotic mRNAs encode _____ that are synthesized independently from distinct initiation sites.

Select the correct option

[Reload Math Equations](#)

☐	Multiple Nucleotide
☒	Single Polypeptide
☐	Single Nucleotide
☐	Multiple Polypeptide

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Question # 10 of 30 (Start time: 08:41:44 PM, 21 June 2021)

Total Marks: 1

FASTX and FASTY translates

Select the correct option

[Reload Math Equations](#)

- | | |
|----------------------------------|-------------------|
| ☒ | DNA sequence |
| ☐ | Protein sequence |
| ☐ | Domain structures |
| ☐ | None of these |

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Question # 8 of 30 (Start time: 00:21:18 PM, 21 June 2021)

Total Marks: 1

Tabular storage is better than flat-file storage

Select the correct option

☒	True
☐	False

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Question # 3 of 30 (Start time: 08:18:04 PM, 21 June 2021)

Total Marks: 1

CLUSTALW is developed by _____

Select the correct option

[Reload Math Equations](#)

☐

European Molecular Biology Laboratory

☐

DDBJ

☐

European Bioinformatics Institute

☒

Both b & c

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