

Nucleic Acids Quiz PDF

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What type of sugar is found in DNA?
○ Ribose
○ Glucose
○ Deoxyribose
○ Fructose
Which of the following are stop codons?
☐ UAA
☐ AUG
□ UGA
UAG
What is the significance of the antiparallel nature of DNA strands?

How does the genetic code ensure accurate protein synthesis?



Which of the following statements about mutations are tru	10.2
	Je :
They can lead to genetic disorders.	
They always result in harmful effects.	
They contribute to genetic diversity.	
☐ They can be caused by environmental factors.	
Explain the role of tRNA in protein synthesis.	
Explain the fole of this in protein synthesis.	
Which of the following base pairs is correct in DNA?	
○ A-U	
○ C-T	
○ G-C	
○ T-G	
Which of the following is a start codon in mRNA?	
○ UAA	
○ AUG	
○ UGA	
OUAG	

How do mutations affect the genetic code and potentially lead to genetic disorders?



What is the primary function of mRNA?	
○ To replicate DNA	
○ To transport amino acids	
To carry genetic information from DNA to the ribosome	
○ To form the structure of ribosomes	
Describe the present of DNA vanligation and its significance	
Describe the process of DNA replication and its significance.	
	/
What is the shape of DNA?	
◯ Single helix	
O Double helix	
○ Triple helix	
○ Linear strand	
Which of the following are components of a nucleotide?	
☐ Nitrogenous base	
☐ Phosphate group	
☐ Amino acid	
☐ Sugar	
What are the functions of DNA?	
What are the functions of DNA?	

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 Store genetic information Synthesize proteins directly Guide development Replicate itself 	
Which of the following are types of RNA?	
□ mRNA□ tRNA□ rRNA□ dRNA	
Which nitrogenous base pairs with Adenine in DNA?	
○ Cytosine○ Guanine○ Thymine○ Uracil	
Which enzyme is primarily responsible for DNA replication?	
RNA polymeraseDNA ligaseDNA polymeraseHelicase	
Which processes involve RNA?	
□ Transcription□ Translation□ Replication□ Mutation	
Which nitrogenous base is found in RNA but not in DNA?	
○ Thymine○ Uracil○ Adenine	

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Discuss the differences between DNA and RNA in terms of structure and function.		