

DNA, RNA, & Protein Synthesis Review

1. A nucleotide does NOT contain
 a) a lipid b) a nitrogen base c) a phosphate group d) a 5-carbon sugar
2. The diagram to the right shows the process of DNA...
 a) replication b) transcription c) translation d) transformation
3. In mRNA, each codon codes for a particular
 a) ribose b) nucleotide c) amino acid d) DNA
4. A defined section of DNA that codes for a specific protein is called a...
 a) gene b) ribose c) phosphate d) tRNA
5. The main enzyme involved in linking individual nucleotides into DNA molecules is called:
 a) transfer RNA b) ribose c) gene d) DNA polymerase
6. During replication, which sequence of nucleotides would bond with the DNA sequence of ATGCA?
 a) ATGCA b) GCATG c) TACGT d) TAGCT e) ACGTA
7. Changes in the DNA sequence that affect genetic information are known as...
 a) transformations b) mutations c) replications d) prokaryotes
8. Which of the following does NOT describe the structure of DNA?
 a) double helix b) contains A-U pairs c) sugar-phosphate backbone d) double-stranded
9. The job of tRNA is to...
 a) send the mRNA out into the cytoplasm b) block translation c) deliver amino acids to the mRNA strand d) replicate DNA
10. The process by which a gene is transferred into a plasmid that is then transferred into bacteria, followed by expression of the gene, is called:
 a) replication b) transcription c) translation d) bacterial transformation



11. A scientist analyzed several DNA samples to determine the proportions of G's and C's to A's and T's. Which sample(s) support the base-pairing rule? EXPLAIN YOUR ANSWER, DEFINING WHAT THE BASE-PAIRING RULE IS.

% of Bases in Three Samples of DNA				
Sample	G	C	A	T
A	10	10	40	40
B	30	20	30	20
C	25	25	25	25

A and C support the base-pairing rule (that states that adenine always pairs with thymine; guanine pairs with cytosine) because for every G that is present it would be expected that a C would be present (equal percentages of each); same with A and T. Both A and C numbers support this rule.

12. What is the complimentary (matching) strand to the single DNA strand below?

ATCGTCATTGGAATGA
 TAGCAGTAAGCTTACT

13. Transcribe the single strand of DNA (shown below) into mRNA.

AGTCGTAGG
 UCAGCAUCC

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JG Myers



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