

Name _____

Student # _____

Ms. Campbell

Protein Synthesis Practice Questions

Regents L.E.

1. A sequence of three nitrogenous bases in a messenger-RNA molecule is known as a

1) **codon** 2) gene
3) polypeptide 4) nucleotide

2. The genetic code for one amino acid molecule consists of

1) five sugar molecules
2) two phosphates
3) **three nucleotides**
4) four hydrogen bonds

3. What is the relationship between an organism's DNA and protein specificity?

1) DNA becomes a specific part of the protein structure.
2) DNA determines the ribosomal RNA sequence that becomes part of the protein structure.
3) DNA determines which RNA molecules are incorporated into protein molecules.
4) **DNA determines the amino acid sequence of each protein.**

4. In the synthesis of proteins, what is the function of messenger-RNA molecules?

1) They act as a template for the synthesis of DNA.
2) **They carry information that determines the sequence of amino acids.**
3) They remove amino acids from the nucleus.
4) They carry specific enzymes for dehydration synthesis.

Base your answers to questions 5 and 6 on the chart below and on your knowledge of biology.

Messenger RNA (mRNA) Codes for Selected Amino Acids

Amino Acid	mRNA Code
Leucine	C - C - A
Arginine	C - G - A
Phenylalanine	U - U - U
Valine	G - U - U
Lysine	A - A - A

5. Which base sequence of a DNA molecule produces a codon on an mRNA molecule that will allow the amino acid arginine to be incorporated into a protein?

1) C - G - A 2) **G - C - T**
3) C - G - U 4) G - C - U

6. Which amino acid will be carried to a ribosome by a transfer RNA molecule containing the triplet code A - A - A?

1) valine 2) lysine
3) leucine 4) **phenylalanine**

Regents Biology Protein Synthesis Practice 2 Answers

Kim Magloire



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