Name: _____ Period: _____ Date: _____

DNA and RNA Structures Exit Quiz

I. Multiple Choices

1. Which of the following best explains the sequence of protein synthesis?

a) DNA makes RNA makes protein
b) RNA makes DNA makes protein
c) DNA makes protein makes RNA
d) Protein makes DNA makes RNA

2. Which of the following RNAs carries amino acids to the ribosome.?

a) mRNA
b) tRNA
c) rRNA
d) nRNA

3. Which of the following nitrogen bases have a two-ringed structure?

a) Pyrimidines
b) Purines

4. Which kind of bonds typically found between the bases in the DNA?

a) Glycosidic linkages
b) Phosphodiester bond
c) Hydrogen bonds
d) Covalent bonds

5. In DNA, which base pairing is a correct pairing?

a) Thymine and guanine
b) Cytosine and adenine
c) Guanine and cytosine
d) Uracil and thymine

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DNA and RNA Structures Exit Quiz

II. Below is a chart of features found in either DNA or RNA or both. Use check marks to indicate which are found in DNA and which are found in RNA.

Feature	Found in DNA	Found in RNA
Ribose sugar present		
Deoxyribose sugar present		
Phosphate group present		
Adenine base present		
Thymine base present		
Uracil base present		
Single stranded molecule		
Double helix		
Found in the nucleus		

III. Given the following DNA strand, what would the mRNA strand be?

T A C G T T G C A

_____

IV. Define the central dogma?

_____

_____

_____