CHEM 3521 Biochemistry: RNA

1. What is RNA?

A. A molecule that is responsible for the genetic code
B. A molecule that is responsible for the genetic code and protein synthesis
C. A molecule that is responsible for protein synthesis

2. What is the main difference between RNA and DNA?

A. RNA is single stranded while DNA is double stranded
B. RNA is double stranded while DNA is single stranded
C. RNA has the sugar ribose while DNA has the sugar deoxyribose

3. Which of the following is not a type of RNA?

A. Messenger RNA
B. Transfer RNA
C. Lipid RNA

4. What is the role of RNA in protein synthesis?

A. RNA is the template for protein synthesis
B. RNA is the messenger for protein synthesis
C. RNA is the catalyst for protein synthesis

5. What is the difference between mRNA and tRNA?

A. mRNA carries the genetic code while tRNA carries amino acids
B. mRNA carries amino acids while tRNA carries the genetic code
C. mRNA is double stranded while tRNA is single stranded

6. What is the role of RNA in the genetic code?

A. RNA is the template for the genetic code
B. RNA is the messenger for the genetic code
C. RNA is the code itself

7. What is the difference between RNA and DNA replication?

A. RNA replication is faster than DNA replication
B. RNA replication is more accurate than DNA replication
C. RNA replication uses a different enzyme than DNA replication

8. What is the role of RNA in transcription?

A. RNA is the template for transcription
B. RNA is the messenger for transcription
C. RNA is the catalyst for transcription

9. What is the difference between RNA and DNA transcription?

A. RNA transcription is faster than DNA transcription
B. RNA transcription is more accurate than DNA transcription
C. RNA transcription uses a different enzyme than DNA transcription

10. What is the role of RNA in translation?

A. RNA is the template for translation
B. RNA is the messenger for translation

C. RNA is the code for translation