

Name \_\_\_\_\_

## RNA: The Messenger of Life

### Multiple Choice Questions

1. What does RNA stand for?
  - a) Red Nucleic Acid
  - b) Ribonucleic Acid
  - c) Rapid Nuclear Assembly
  - d) Royal Nutritional Analysis
  
2. What is one key difference between RNA and DNA?
  - a) RNA contains ribose sugar, while DNA contains deoxyribose sugar.
  - b) RNA contains the nitrogenous base thymine, while DNA contains uracil.
  - c) RNA is double-stranded, while DNA is single-stranded.
  - d) RNA is found only in plants, while DNA is found only in animals.
  
3. What is the role of messenger RNA (mRNA) in protein synthesis?
  - a) It brings amino acids to the ribosomes.
  - b) It carries the genetic code from DNA to the ribosomes.
  - c) It is a component of the ribosomes.
  - d) It regulates gene expression.
  
4. How does RNA interference (RNAi) work?
  - a) By preventing specific genes from being translated into proteins.
  - b) By promoting the translation of specific genes into proteins.
  - c) By repairing damaged DNA molecules.
  - d) By causing mutations in the genetic code.
  
5. Why is understanding RNA important in medicine?
  - a) To develop new treatments for diseases.
  - b) To study the behavior of birds.
  - c) To understand weather patterns.
  - d) To breed new types of plants.

