

Name _____

Per _____

DNA and Replication

Part A:

1. What is the function of DNA in cells?
2. Describe the components and structure of a DNA nucleotide.
3. List the names and abbreviations of the 4 bases
4. Why is DNA called a double helix?
5. What forms the sides of the DNA ladder?
6. What forms the rungs of the DNA ladder?
7. Where and in what form is eukaryotic DNA found?

Part B:

1. What is meant by the term base-pairing? How is base-pairing involved in DNA replication?
2. Explain how DNA is replicated. In your explanation, state the role of DNA polymerase and explain why the replication process is considered semi-conservative.