DNA Structure and Synthesis Checktest

- 1. Other than the base molecule, name the parts of a DNA nucleotide by drawing a labelled diagram.
- 2. Name the four base molecules that a DNA nucleotide can possess.
- 3. State the complementary base molecule pairings.
- 4. Between which two molecules does a strong chemical bond exist, making up the "backbone" of a DNA molecule?
- 5. What is the term used to describe the twisted nature of a DNA molecule?
- 6. How many strands make up a DNA molecule?
- 7. State the location of DNA synthesis.
- 8. What <u>two</u> things does a DNA molecule have to do before replication will occur?
- 9. Other than the free nucleotides and the DNA strands themselves, name two substances that must be present for replication to occur.
- 10. During replication, what type of bonds are formed between the complementary base pairs?
- 11. Why is DNA described as being semi-conservative in nature?
- 12. Why is DNA replication so important to an organism?
- 13. Outline step by step what happens during DNA replication
- 14. What percentage of thymine molecules are present on a DNA molecule of 1000 bases, if 200 of the base molecules are cytosine?