

## Chapter 1: DNA Structure and Function

1. In which body or cell area are most genes in humans located?  
**A. Nucleus**
2. Which condition or statement exemplifies the concept of genomics rather than genetics?  
**A. The gene for insulin is located on chromosome 11 in all people.**
3. What is the purpose of phosphorous in a DNA strand?  
**A. Linking the nucleotides into a strand**
4. What is the term used to define alternative forms of a gene that may result in different expression of the trait coded for by that gene?  
A. Alleles
5. What percentage of bases in a stretch of double-stranded DNA that contains 30% guanine (G) bases would be adenine (A)?  
D. 20%
6. What is the term used to describe the organized picture of the paired chromosomes within a cell used to determine whether chromosome numbers, structures, and banding patterns are normal?  
C. Karyotype
7. What would be the sequence of DNA that is complementary to a DNA section with the base sequence of GGTC AATCCTTAG?  
D. CCAGTTAGGAATC
8. Which of these complementary base pairs form the strongest or "tightest" association?  
B. Cytosine and guanine
9. What activity occurs during M phase of the cell cycle?  
C. All DNA is completely replicated.
10. Which chromosome number represents the euploid state for normal human somatic cells?  
B. 46
11. How does the proteome differ from the genome?  
A. The proteome changes in response to intracellular and extracellular signals.
12. What is the most outstanding feature of a mature haploid cell?  
C. Only one chromosome of each pair is present.
13. At what phase of the cell cycle are chromosomes visible as separate structures?  
D. M
14. Which statement about the cell cycle phase of G<sub>0</sub> is true?  
B. Performance of specific differentiated functions
15. What is the result of normal DNA replication?  
B. Formation of two identical sets of DNA
16. Which statement regarding chromosome structure or function is true?  
A. The chromatids of any single chromosome are known as "sister chromatids."

# Genetics Dna Study Guide Answers

**Barbara Janson Cohen, Memmler**



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