

## 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 Midterm Study Guide Answers

**J Rink**



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