Gene Concept

Session 1 Gene structure mcq

- 1.) What is the relationship among DNA, a gene, and a chromosome?
 - A) A chromosome contains hundreds of genes, which are composed of DNA.
 - B) A chromosome contains hundreds of genes, which are composed of protein.
 - C) A gene contains hundreds of chromosomes, which are composed of protein.
 - D) A gene is composed of DNA, but there is no relationship to a chromosome.

- 2.) The "one gene one polypeptide" theory states that
 - A) the synthesis of each gene is catalyzed by one specific enzyme.
 - B) the synthesis of each enzyme is catalyzed by one specific gene.
 - C) the function of an individual gene is to dictate the production of a specific polypeptide.
 - D) each polypeptide catalyzes a specific reaction.

- 3. In DNA adenine pairs with _____
- A) g
 - B) T
 - C) C
 - D) U

- 4)A chromosome
- A.carries genetic information
- B.controls cell respiration
- C.is the site of photosynthesis
- D.speeds up chemical reactions