

Huether and McCance: Understanding Pathophysiology, 5th Edition

Chapter 02: Genes and Genetic Diseases

Test Bank

MULTIPLE CHOICE

1. A nurse recalls the basic components of DNA are:
 - a. Pentose sugars and four phosphate bases
 - b. A phosphate molecule, deoxyribose, and four nitrogenous bases
 - c. Adenine, guanine, and purine
 - d. Codons, oxygen, and cytosine

ANS: B

DNA has three basic components: the pentose sugar molecule, deoxyribose; a phosphate molecule; and four types of nitrogenous bases.

DNA contains four nitrogenous bases, not phosphate bases.

Adenine and guanine are purines and are only a portion of the components of DNA.

DNA synthesizes body protein, of which a codon is a component.

REF: p. 35

2. Which of the following mutations have the most significant effect on protein synthesis?
 - a. Base pair substitutions
 - b. Silent mutations
 - c. Intron mutations
 - d. Frameshift mutations

ANS: D

The frameshift mutation involves the insertion or deletion of one or more base pairs of the DNA molecule. They alter the amino acid sequence.

The base pair substitution is a type of mutation in which one base pair replaces another.

Silent mutations do not change amino acids or protein synthesis.

Intron mutations are part of RNA sequencing.

REF: p. 37

3. The base components of DNA are:
 - a. A, G, C, and U
 - b. P, G, C, and T
 - c. A, G, C, and T
 - d. X, XX, XY, and YY

ANS: C

Understanding Pathophysiology 5e Stormrg

**Sue E. Huether MS, Kathryn L.
McCance MS**



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phase locked loops a phase locked loop combines a voltage controlled oscillator and a phase comparator as a feedback system to adjust the oscillator frequency or phase to track an applied frequency modulated or phase modulated signal voltage controlled oscillator blocks a voltage controlled oscillator is one part of a phase locked loop

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this example shows how to model a digital phase locked loop using the mixed signal blockset in a digital phase locked loop phase detection is performed by a time to digital converter tdc loop filtering is performed by a digital filter and the oscillator is a digitally controlled oscillator dco this example demonstrates a behavioral

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this example shows how to use simulink design optimization to tune an all pass filter of a phase lock loop the filter includes a second order low pass filter and a feedthrough gain the feedthrough gain and the second order filter coefficients are tuned to apply a steady state input to the voltage controlled oscillator vco

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this example shows how on model a electronic phase locks loop using the mixed signal blockset