

# Genetics From Genes To Genomes 6th Edition Hartwell Test Bank

## Hartwell

### Chapter 1 Genetics: The Study of Biological Information

- 1) How does DNA structure relate to its function?
  - The order of nucleotides in a DNA strand specifies the order of amino acids in a protein.
- 2) What is a difference between the structure of DNA and proteins?
  - DNA is composed of nucleotides and proteins are composed of amino acids.
- 3) A genome can be best described as
  - the DNA in all chromosomes in a cell.
- 4) What is the difference between the function of DNA and the function of proteins?
  - DNA stores genetic information and proteins perform most cellular functions.
- 5) Which statement supports the theory that all organisms are related?
  - The genetic code is almost universal.
- 6) New genes are thought to arise by which mechanism?
  - Gene duplication followed by divergence due to mutation.
- 7) What is the most likely way a mutation in one gene can convert one body part to another?
  - The mutated gene encodes a protein that affects the expression of many other genes.
- 8) A recent technical advancement that has accelerated the study of genomes is the ability to
  - sequence large complex genomes rapidly and inexpensively.
- 9) What is the difference between genetic dissection and genome sequencing?
  - Genetic dissection reveals information about one gene at a time and genome sequencing reveals information about all the genes in a genome at once.
- 10) Currently, what information can be obtained from sequencing an individual's genome?
  - Information about gene variants that predispose a person to a disease, such as cancer.
- 11) Which is *not* a potential problem of allowing the genomic sequences of individuals to become widely available?
  - Advances leading to healthier lives for some people.

# Genetics Hartwell Study Guide Solution

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