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# **Molecular Biology of the Cell 6th Edition Alberts**

## **Test Bank**

### **MOLECULAR BIOLOGY OF THE CELL, SIXTH EDITION**

#### **CHAPTER 1: CELLS AND GENOMES**

1. Scientists discover more than ten thousand new species of living organisms every year. What is shared between all of these organisms?
  - A. They are made of cells, whose nuclei enclose their DNA.
  - B. They obtain their energy from sunlight.
  - C. They produce and use adenosine triphosphate (ATP).
  - D. Their genome contains at least 1000 genes.
  - E. All of the above.
  
2. All cells ...
  - A. have membrane transport proteins.
  - B. synthesize proteins on the ribosome.
  - C. replicate their genome by DNA polymerization.
  - D. transcribe their genetic information by RNA polymerization.
  - E. All of the above.
  
3. Imagine a segment of DNA (within a gene) encoding a certain amount of information in its nucleotide sequence. When this segment is fully transcribed into mRNA and then translated into protein, in general, ...
  - A. the protein sequence would carry more information compared to the DNA and mRNA sequences, because its alphabet has 20 letters.
  - B. the protein sequence would carry less information compared to the DNA and mRNA sequences, because several codons can correspond to one amino acid.
  - C. the amount of information in the mRNA sequence is lower, because the mRNA has been transcribed using only one of the DNA strands as the template.
  - D. the amount of information in the mRNA sequence is higher, because several mRNA molecules can be transcribed from one DNA molecule.
  
4. Which of the following processes that happens inside a cell DOES NOT normally require consumption of free energy by the cell?
  - A. Replication of the genetic material

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