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QUESTION 1

Which of the following proteins are incorrectly matched to their functions?

- A. DNA Topoisomerase: relaxes supercoiling.
- B. Helicase: Unwinds the double helix of the DNA by breaking the hydrogen bonds.
- C. DNA Polymerase I: Removes and replaces the RNA primer with DNA.
- D. DNA Ligase: Joins DNA segments together, as seen with Okazaki fragments.
- E. None of the above.

Correct Answer: E

All of the answer choices are correct. These proteins are components of DNA replication and should be known.

QUESTION 2

Chlorophyll is associated with which of the following metals?

- A. Zinc
- B. Iron
- C. Magnesium
- D. Silver
- E. Manganese

Correct Answer: C

Chlorophyll has a central magnesium atom associated with it (whereas hemoglobin has iron).

QUESTION 3

Stefan's scores on his English essays were 75, 65, 80, 95, and 65. What is the average of his test scores?

- A. 66
- B. 71
- C. 65
- D. 76

Correct Answer: D

$(75 + 65 + 80 + 95 + 65) / 5 = 76$.

QUESTION 4

Which of the following phase changes leads to a positive change in entropy value?

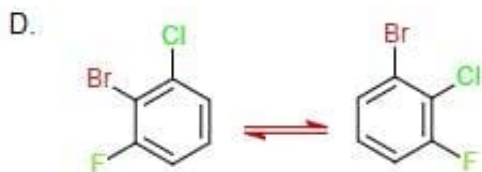
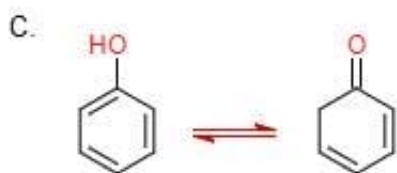
- A. Fusion
- B. Melting
- C. Sublimation
- D. Vaporization
- E. All of the above

Correct Answer: E

All of the answer choices lead to a positive change of entropy value. Also note, Fusion and Melting are the same thing.

QUESTION 5

Which of the following is an example of keto-enol tautomerism?



E. B & C

- A. Option A
- B. Option B
- C. Option C
- D. Option D

E. Option E

Correct Answer: E

Keto-enol tautomerism is the equilibrium between a keto form and an enol form (alcohol) of a chemical. In this scenario, both answer choices B and C are applicable keto-enol tautomers, although the frequency of one form compared to another may be shifted.

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