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QUESTION 1

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 2

A segment of DNA contains the following code: ATGGCGCCTTA. What would the sequence of its transcribed mRNA be?

- A. ATTCCGCGGTA
- B. TACCGCGGAAT
- C. UACCGCGGAU
- D. AUCCGCGGAAT
- E. ATGGCGCCTTA

Correct Answer: C

QUESTION 3

Which of the following bonds requires the highest energy to denature in DNA?

- A. Adenine – Thymine
- B. Guanine – Adenine
- C. Cytosine – Guanine
- D. Adenine – Uracil
- E. All require equal strength

Correct Answer: C



Cytosine – Guanine bond is composed of a triple hydrogen bond. Adenine – Thymine is composed of a double hydrogen bond, thus taking less energy to break apart those 2 bonds. Adenine – Uracil is applicable to RNA. Adenine – Guanine does not occur in DNA.

QUESTION 4

If 8 people can eat 6 bags of chips, how many people will it take to eat 15 bags of chips?

- A. 22
- B. 18
- C. 16
- D. 20

Correct Answer: D

Use a proportion to solve the problem. $8/6 = x/15$, $60 = 3x$, $x = 20$.

QUESTION 5

Which of the following possesses a cell wall?

- A. Plants
- B. Bacteria
- C. Fungi
- D. Protists
- E. All of the above

Correct Answer: E

All of the answer choices do indeed contain a cell wall. The anatomy of the cell of various kingdoms should be known.

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