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QUESTION 1

Which of the following is false in regards to arthropods?

A. They are a class of invertebrates.

B. They possess a chitinous exoskeleton.

C. All arthropods are aerobic organisms.

D. It possess a tracheal system for respiration.

E. None of the above.

Correct Answer: E

All characteristics in the answer choices are true of arthropods (insects).

QUESTION 2

Which of the following types of muscles possesses striations?

A. Skeletal

B. Smooth

C. Cardiac

D. A and B

E. A and C

Correct Answer: E

Both skeletal and cardiac muscles do possess striations, but skeletal have more defined striations.

QUESTION 3

Find the value of x in $3x - 3 = 93x ? 7$:

A. 2.2

B. 1

C. 3.5

D. 4

E. 4.5

Correct Answer: A

Begin by finding a common base root. Left side is 31(x ? 3); right is 32(3x ? 7). The 3\\'s cancel out on both sides, and you have: 1(x ? 3) = 2(3x ? 7). Simplifying gives:

x − 3 = 6x ? 14 ?3 = 5x ? 14 11 = 5x x = 2.2

QUESTION 4
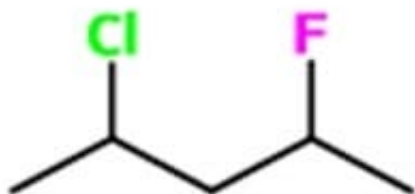
Identify the missing reagent in the reaction below:

A. 1) BH3, THF; 2) H2O2, OH

B. CH2N2, Heat

C. Cl2, CCl4

D. 1) OsO4; 2) NaHSO3

E. 1) O3; 2) Zn, H2O

Correct Answer: C

QUESTION 5

How many possible stereoisomers are there for this molecule?

B. 3

C. 4

D. 5

E. 6

Correct Answer: C

The maximum number of stereoisomers is determined by the equation: 2n Where n = number of chiral centers. There are 2 chiral centers in the molecule above, thus rendering a

maximum number of 4 stereoisomers.

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