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QUESTION 1

Which of the following organisms has a circulatory system in which blood circulates in an internal cavity called a hemocoel?

- A. Birds
- B. Cats
- C. Centipedes
- D. Eels
- E. Earthworms

Correct Answer: C

Insects and most mollusks have open circulatory systems. Vertebrates, the phylum Annelida (earthworms), and some mollusks (squid and octopuses) have closed circulatory systems.

QUESTION 2

What is the molecular formula of acetic acid?

- A. C₂H₄O₂
- B. C₃H₆O
- C. CH₂O
- D. CHO

Correct Answer: A

QUESTION 3

Which of the following has the largest bond order?

- A. O₂
- B. NO₃⁻
- C. NO₂⁺
- D. CN⁻

A. Option A



B. Option B

C. Option C

D. Option D

Correct Answer: D

Bond order for diatomic molecules is found by determining the type of bonds between the 2 atoms. In cases where there are more than two atoms involved, count the number of bonds, then count the number of bond groups between atoms, then calculate the ratio of the number of bonds to the total number of bond groups. The Lewis structure for (A) shows a double bond between oxygen atoms, and its bond order is 2.

(B)

Shows a double bond between N and O, and 2 single bonds between N and O:

(C)

Shows 2 double bonds between N and O: $4 / 2 = 2$. (D) Shows 1 triple bond between C and N and a bond order of 3.

(D) has the largest bond order.

$$\frac{\text{total number of bonds}}{\text{number of groups}} = \frac{4}{3} = 1.33$$

QUESTION 4

What is the solution for the equation $x / 3 + 4 = 7$?

A. 12

B. 21

C. 15

D. 9

Correct Answer: D

$$x / 3 + 4 = 7, x / 3 = 3, x = 9.$$

QUESTION 5

Which of the following nitrogen bases is present in RNA but absent in DNA?

A. Cytosine

B. Uracil

C. Guanine

D. Adenine



Correct Answer: B

RNA consists of ribose pentose sugar. Unlike DNA, it consists of only one polynucleotide chain. It also contains two purine and pyrimidine bases. Uracil (U) is the nitrogen base which is present in RNA but absent in DNA. Thus, RNA contains Adenine (A) and Guanine (G) as purine bases, and Cytosine (C) and Uracil (U) as pyrimidine bases.

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