

Question 1

How many resonance structure could be drawn for the nitrate ion?

- A) 0
- B) 1
- C) 2
- D) 3

Answer: <https://biology-forums.com/index.php?topic=545751>

Question 2

Which of the following has 8 electrons in the outer shell?

- A) Ca^{2+}
- B) Cl^+
- C) S^{2+}
- D) Fe^{3+}

Answer: <https://biology-forums.com/index.php?topic=546360>

Question 3

Platinum is used in the catalytic converters of the cars.

State whether this is true or false. Thanks!

Answer: <https://biology-forums.com/index.php?topic=545600>

Question 4

When a binary compound is composed of a metal and a non-metal it is called _____.

- A) binary ionic
- B) binary covalent
- C) binary coordinate
- D) either B or C

Answer: <https://biology-forums.com/index.php?topic=545789>

Question 5

Which of the following is a pure, elemental substance?

- A) $\text{Br}_2(\text{l})$
- B) $\text{SO}_2(\text{g})$
- C) $\text{H}_2\text{O}(\text{l})$
- D) air

Answer: <https://biology-forums.com/index.php?topic=545483>

Question 6

Hydrogen cyanide may also be called hydrocyanic acid when in aqueous solution.

State whether this is true or false. Thanks!

Answer: <https://biology-forums.com/index.php?topic=545903>

Question 7

When covalent bonds are broken energy is released.

State whether this is true or false

Answer: <https://biology-forums.com/index.php?topic=545852>

Question 8

Which of the following has more than one double bond?

- A) carbon monoxide
- B) carbon dioxide
- C) oxygen
- D) nitrogen

Answer: <https://biology-forums.com/index.php?topic=545759>

Question 9

as a base in terms of the Bronsted-Lowry definition.

Global Obj: G2 Demonstrate the ability to think critically and employ critical thinking skills.

30) Which of the following compounds or ions qualifies as a Bronsted-Lowry acid?

- A) KOH
- B) NH₃
- C)
- D) NH₄⁺

Answer: <https://biology-forums.com/index.php?topic=546884>

Question 10

Every single COVALENT bond represents _____ electrons.

- A) one
- B) two
- C) four
- D) One cannot say unless the atoms that make up the bond are known.

Answer: <https://biology-forums.com/index.php?topic=545718>

Question 11

The number of valence electrons in neon is _____.

- A) 2
- B) 4
- C) 6
- D) 8

Answer: <https://biology-forums.com/index.php?topic=545712>

Question 12

If the solubility of a certain salt A₂B is 1.4×10^{-4} M, the value of the solubility product will be _____.

- A) 2.7×10^{-12}
- B) 1.1×10^{-11}
- C) 1.6×10^{-11}
- D) 3.6×10^{-12}

Answer: <https://biology-forums.com/index.php?topic=546810>

Question 13

Sulfuric acid is a diprotic acid.

State whether this is true or false. Thanks!

Answer: <https://biology-forums.com/index.php?topic=546930>

Question 14

To prepare 100 mL of 0.4 M HCl solution from a stock solution of 2 M HCl solution one needs to _____.

- A) dilute 20 mL of 2 M HCl solution with 100 mL of HCl solution.
- B) dilute 20 mL of 2 M HCl solution with enough water to make a total volume of 100 mL of solution.
- C) use 500 mL of 2 M HCl solution and boil it down to a final volume of 100 mL of solution.
- D) dilute 80 mL of 2 M HCl solution to a total volume of 100 mL of solution.

Answer: <https://biology-forums.com/index.php?topic=546582>