# **Question 1**

In which one of the following solutions is silver chloride the most soluble?

A) 0.181 M NaCl

B) 0.181 M HCI

C) 0.744 M LiNO3

D) 0.0176 M NH3

E) pure water

Answer: https://biology-forums.com/index.php?topic=386528

#### **Question 2**

What noble gas is radioactive?

Answer: https://biology-forums.com/index.php?topic=386817

# **Question 3**

Which one of the following substances found in the atmosphere will absorb radiation in the infrared portion of the spectrum?

A) Kr

B) O2

C) He

D) N2

E) H2O

Answer: https://biology-forums.com/index.php?topic=386565

### **Question 4**

In the symbol below, X = \_\_\_\_\_.

13 is over 6X

A) C

B) N

C) Al

D) K

E) not enough information to determine

Answer: https://biology-forums.com/index.php?topic=385706

### **Question 5**

What is the charge on the complex ion in Ca2[Fe(CN)6]?

A) 2-

B) 3-

C) 2+

D) 1-E) 4-

Answer: https://biology-forums.com/index.php?topic=386869

### **Question 6**

Which gaseous sulfur compound combines with water to form the principal acidic constituent of acid rain?

A) SO2

B) SO3

C) SO

D) H2S

E) H2SO4

Answer: https://biology-forums.com/index.php?topic=386566

## **Question 7**

Silicones are \_\_\_\_\_

- A) three-dimensional covalent networks of silicon atoms
- B) chains of alternating silicon and oxygen atoms with attached organic groups
- C) flat sheets of silicon and hydrogen atoms
- D) flat sheets of silicon atoms
- E) three-dimensional covalent networks of SiO4 tetrahedra

Answer: https://biology-forums.com/index.php?topic=386804

### **Question 8**

Of the following, \_\_\_\_\_ appear(s) to gain mass in a magnetic field.

B2 N2 O2

A) B2 and N2
B) N2 and O2
C) N2 only
D) B2 and O2
E) O2 only
Answer: https://biology-forums.com/index.php?topic=386158

# **Question 9**

Zinc is more active than cobalt and iron but less active than aluminum. Cobalt is more active than nickel but less active than iron. Which of the following correctly lists the elements in order of increasing activity?

A) Ni < Fe < Co < Zn < Al

B) Fe < Ni < Co < Al < Zn

C) Co < Ni < Fe < Zn < Al

D) Zn < Al < Co < Ni < Fe

E) Ni < Co < Fe < Zn < Al

Answer: https://biology-forums.com/index.php?topic=385827

### **Question 10**

What is the molecular formula for 1-propanol?

A) CH4O

B) C2H6O

C) C5H12O

D) C4H10O

E) C3H8O

Answer: https://biology-forums.com/index.php?topic=385764

### **Question 11**

Which quantum numbers must be the same for the orbitals that they designate to be degenerate in a many-electron system?

A) n and I only

B) ms only

C) n only

D) n, I, ml, and ms

E) n, l, and ml

Answer: https://biology-forums.com/index.php?topic=385917

### **Question 12**

Polyatomic ions with an odd number of electrons will \_\_\_\_\_\_ the octet rule.

Answer: https://biology-forums.com/index.php?topic=386086

# **Question 13**

Which of the following would produce a basic solution?

A) CO, CO2, and BeH2

B) Na2O and MgO

C) CO and CO2

D) BeH2 only

E) Na2O, MgO, and BeH2

Answer: https://biology-forums.com/index.php?topic=386750

# **Question 14**

The relative biological effectiveness (RBE) values of beta rays, gamma rays, and alpha rays are \_\_\_\_\_\_, respectively.

Answer: https://biology-forums.com/index.php?topic=386736

### **Question 15**

Which of the following equations shows an incorrect relationship between pressures given in terms of different units?

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- A)  $152 \text{ mm Hg} = 2.03 \times 104 \text{ Pa}$
- B) 1.0 torr = 2.00 mm Hg
- C) 0.760 atm = 578 mm Hg
- D) 1.00 atm = 760 torr
- E) 1.20 atm = 122 kPa

Answer: https://biology-forums.com/index.php?topic=386180

### **Question 16**

An elastomer will fail to regain its original dimensions following a distortion beyond its \_\_\_\_\_

- A) phase boundary
- B) London force
- C) crystallinity
- D) elastic limit
- E) glass transition

Answer: https://biology-forums.com/index.php?topic=386359

## **Question 17**

Hydration is a specific example of the phenomenon known generally as

- A) condensation
- B) disordering
- C) salutation
- D) solvation
- E) dilution

Answer: https://biology-forums.com/index.php?topic=386384

### **Question 18**

The ratio of the actual value of a colligative property to the value calculated, assuming the substance to be a nonelectrolyte, is referred to as

- A) osmotic pressure
- B) freezing point depression
- C) Henry's law
- D) the van't Hoff factor
- E) vapor pressure lowering

Answer: https://biology-forums.com/index.php?topic=386422