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Question: 97

What property of a metal refers to its ability to be hammered into sheets?

- A. Ductility
- B. Thermal conductivity
- C. Electrical conductivity
- D. Malleability
- E. Density

Answer: D

Malleability refers to a metal's ability to be hammered into sheets.

Question: 98

Which of the following elements is most easily oxidized?

- A. Nitrogen
- B. Fluorine
- C. Lithium
- D. Neon
- E. Sulfur

Answer: C

Easily oxidized elements readily release electrons. The loss of an electron allows these elements to form a stable valence electron configuration. In the context of this question, lithium is the most willing to release an electron, so it is the most easily oxidized.

Question: 99

The hamstrings are responsible for flexing which joint?

- A. Knee
- B. Hip
- C. Shoulder

D. Elbow

Answer: A

The hamstrings are responsible for flexing the knee joint. The hamstrings consist of biceps femoris, semimembranosus and semitendinosus. They also assist in knee rotation.

Question: 100

What type of bonding does a molecule of NaCl display?

- A. Ionic
- B. Polar covalent
- C. Nonpolar covalent
- D. Metallic
- E. Covalent metallic

Answer: A

NaCl is composed of two ions, Na^+ and Cl^- . Therefore, the molecule displays ionic bonding.

Question: 101

Which of the following compounds is classified as a metallic oxide?

- A. H_2O
- B. Na_2O
- C. CO_2
- D. NO_2
- E. SO_2

Answer: B

Metallic oxides consist of an oxygen atom bound to a metal. The only metal present in this question is sodium, so Na_2O must be a metallic oxide.

Question: 102

A saturated solution of NaCl is heated until more solute can be dissolved. How is this solution best described?

- A. Dilute
- B. Immiscible
- C. Supersaturated
- D. Unsaturated
- E. Hydrophobic

Answer: C

When a saturated solution is heated so more solute can be dissolved, the solution is described as supersaturated. Supersaturated solutions are typically unstable, and the solute can crash out of solution if a seed crystal is provided.

Question: 103

A 40.0 gram sample of a radioactive element decays to 5.0 grams in 15 hours. What is the half-life of this element?

- A. 3 hours
- B. 2 hours
- C. 6 hours
- D. 7.5 hours
- E. 5 hours

Answer: E

In 15 hours, this substance has decayed to $1/8$ of its original mass. In other words, the substance has progressed through three half-lives ($1/2 \times 1/2 \times 1/2 = 1/8$). Thus, a single-half life for this substance is 5 hours.

Question: 104

Which of the following compounds contains a double bond?

- A. C₂H₆
- B. C₂H₄
- C. C₃H₈
- D. CH₄
- E. C₄H₁₀

Answer: B

Hydrocarbons with the formula C_nH_{2n} contain double bonds. The only compound with this formula, C₂H₄, must contain a double bond.

Question: 105

What is the duodenum responsible for?

- A. Breaking down food in the small intestines
- B. Cleans the blood
- C. Creates bile
- D. Absorbs oxygen

Answer: A

The duodenum is responsible for breaking down food in the small intestines.

Question: 106

80.0 grams of NaOH is dissolved in 3.0 moles of H₂O. What is the mole fraction of NaOH in this solution?

- A. .20
- B. .37
- C. .40
- D. .64
- E. .79

Answer: C

The mole fraction for a compound indicates (moles of given compound) / (total moles of system). In this question, there are two moles of NaOH and five total moles in the system. Thus, the mole fraction is expressed as $2/5$, or .40.

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