

# CART Practice Test Questions and Answers

## 1. What is the charge of an electron?

- A) Positive
- B) Negative
- C) Neutral
- D) Variable

## 2. The reaction quotient $Q$ is used to:

- A) Measure the activation energy of a reaction
- B) Predict which direction a reaction will proceed to reach equilibrium
- C) Calculate the rate constant  $k$
- D) Determine the heat of reaction

## 3. What is the atomic number of an element?

- A) The number of protons in an atom's nucleus
- B) The number of neutrons in an atom's nucleus
- C) The number of electrons in an atom's nucleus
- D) The total number of protons and neutrons in an atom's nucleus

## 4. The activation energy of a reaction is the:

- A) Total energy released during the reaction
- B) Minimum energy required for reactants to form products
- C) Energy difference between reactants and products
- D) Energy stored in chemical bonds

**Answers: 1-B 2-B 3-A 4-B**

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