

## MCQ on Naming Convention in Solidity

### Question 1:

Which of the following is a **valid variable name** in Solidity?

- A) uint balance-amount
- B) uint BalanceAmount
- C) uint balance\_amount
- D) uint 1balance

**Correct Answer:** C) uint balance\_amount

**Explanation:** Variable names in Solidity cannot contain hyphens (-), cannot start with a number, and typically follow **camelCase** or **snake\_case** naming.

### Question 2:

In Solidity, what is the **recommended convention** for naming **state variables**?

- A) Uppercase letters (e.g., TOTAL\_SUPPLY)
- B) camelCase (e.g., totalSupply)
- C) snake\_case (e.g., total\_supply)
- D) PascalCase (e.g., TotalSupply)

**Correct Answer:** B) camelCase

**Explanation:** According to Solidity style guide, **state and local variables** should use **camelCase** naming convention.

### Question 3:

Which of the following variable names **violates Solidity naming rules**?

- A) \_owner
- B) ownerAddress
- C) \$balance
- D) owner\_1

**Correct Answer:** C) \$balance

**Explanation:** Solidity variable names **cannot start with \$**. They can include letters, digits, and underscores, but must **not start with a digit or special symbol**.

#### Question 4:

Which of the following **naming styles** is generally used for **constant variables** in Solidity?

- A) camelCase
- B) PascalCase
- C) ALL\_CAPS\_WITH\_UNDERSCORES
- D) snake\_case

**Correct Answer:** C) ALL\_CAPS\_WITH\_UNDERSCORES

**Explanation:** Constants in Solidity should be written in **uppercase** with underscores separating words, e.g., MAX\_SUPPLY.

#### Question 5:

Which of the following is a **good naming practice** for Solidity variables?

- A) Use short one-letter names for all variables
- B) Use descriptive names like totalTokensMinted
- C) Use reserved keywords like address as variable names
- D) Mix uppercase and lowercase randomly

**Correct Answer:** B) Use descriptive names like totalTokensMinted

**Explanation:** Descriptive variable names improve readability and maintainability. Avoid reserved keywords or unclear abbreviations.

#### Question 6:

Can variable names in Solidity **start with an underscore** (`_`)?

- A) No, it's not allowed
- B) Yes, but only for internal or private variables
- C) Yes, for any variable type
- D) Only for public variables

**Correct Answer:** B) Yes, but only for internal or private variables

**Explanation:** Prefixing with `_` (e.g., `_owner`) is often used for **private or internal** variables to distinguish them from public getters or parameters.