

# Quiz Questions | Answers

## Module 7 | Lesson 7.8 - The useReducer Hook

### 1. What is React's **useReducer** Hook?

**A:** It is a hook that returns a mutable `ref` object that will persist through the life of a component.

**B:** It is an alternative to `useState` that accepts a reducer function and returns an array containing the current state and a `dispatch` method that can be used to trigger state changes.

**C:** It is a hook that has an identical signature to the `useEffect` hook but where the effect gets fired synchronously after all DOM mutations have taken place.

**D:** It allows function components to keep track of state by returning a stateful value and a function that can update the state value.

**Answer:** B - It is an alternative to `useState` that accepts a reducer function and returns an array containing the current state and a `dispatch` method that can be used to trigger state changes.

### 2. The **useReducer** Hook is preferable to the **useState** hook for complex state objects due to the decoupling of updates that happen to state from the actions themselves.

**A:** True

**B:** False

**Answer:** A - True

### 3. What is the third optional argument of the **useReducer** Hook function?

**A:** A `reducer ( )` function that receives the current state and an action, and returns the new state.

**B:** The initial state value.

**C:** An initialization function responsible in initializing the state.

**D:** The `useReducer` Hook only takes two arguments.

**Answer:** C - An initialization function responsible in initializing the state.