



## REACT

**Note:** Here you have an icon to select the correct options.

1. What are props in a component? Select all the options that apply.
  - ☒ They are the parameters of a component.
  - ☐ It is the state of the component.
  - ☒ It is a mechanism to put data inside the component.
  
2. What is a component? Mark only one option.
  - ☐ An element.
  - ☒ A function or class that returns an element.
  - ☐ An element that returns a function or class.
  - Other: \_\_\_\_\_
  
3. Which of these component types are valid? Select all the options that apply.
  - ☐ Complete Component.
  - ☒ Class Component.
  - ☒ Component Function.
  - ☐ Parent Component.
  - ☐ Child Component.
  
4. What does the term JSX refer to?
  - ☒ It is the mix between pure HTML and javascript , for this reason JSX is used to identify React syntax.
  - ☐ Similar in appearance to XML and HTML, JSX is used to create elements using a familiar syntax.
  - ☐ Term used by React that refers to the mixture of pure XML, HTML and pure JavaScript.
  - ☐ Allows to represent the mixture of XML, which is similar to HTML, and JavaScript.

5. How do I pass a value from a parent component to a child component? Select all the options that apply.

- ☒ Using props.
- ☒ Through the use of states.
- ☐ By only destructuring one or more objects.
- ☒ Referring the child component to the values of the parent component.
- ☐ Using values from the global application context usage.

6. Created the following state of a variable:

```
import { useState } from "react";  
  
const [value, setValue] = useState("Value")
```

Which of these implementations change the state of a component? Check only one option.

- ☐ state.value = "my value"
- ☒ setValue("my value")
- ☐ setState({ value: "my value" })
- ☐ value = { value: "my value" }
- ☐ setValue({"value": "my value"})

7. How many and which arguments does useEffect Hook receive?

- ☐ An argument to provoke the effect.
- ☐ Three arguments, which are the dependencies, the states of the variables and the effect.
- ☐ Two arguments, which are the states of the variables and the dependencies.
- ☒ An argument that receives the state of the variables.
- ☐ Two arguments, which are the effect and the dependencies.

8. How do you import Javascript modules installed with NPM or YARN? Check only one option.

- ☒ import name from 'node\_modules/name';
- ☐ import name from '../node\_modules/name/name.js';
- ☐ import name from '../node\_modules/name/index.js';
- ☐ import name from 'name';

Others: \_\_\_\_\_

9. What functionality does the use of Context API provide?

- ☒ It is a mechanism that provides a way to pass data through the component tree without manually passing props at all levels.
- ☐ It is a functionality that facilitates the handling of data from parent components to child components.
- ☐ It is a React modality that replaces the use of props in its entirety to be able to consume variable values no matter where they are located, facilitating data management throughout the application.

10. How do I import the following component, considering that it is inside a file in the same directory, called MyComponent.js?

```
export const MyComponent = () => {  
  return (  
    <h1>Hello World</h1>  
  )  
}
```

Mark only one option.

- ☐ import MyComponent from './MyComponent';
  - ☐ import { MyComponent } from 'MyComponent';
  - ☐ import MyComponent from 'MyComponent.js';
  - ☒ import { MyComponent } from './MyComponent.js';
- Others: \_\_\_\_\_

**11 - What is the difference between class components and functional components?**

Un componente funcional es una función pura de JavaScript que acepta props como argumentos y devuelve un elemento React. No se utiliza ningún método de renderizado en los componentes funcionales.

Un componente de clase requiere que se extienda desde React.Component y cree una función que devuelva un elemento React. Debe tener el método render() devolviendo JSX.

**12 - How would you set the state of a component?**

Utilizando el hook useState en un componente funcional y this.state en un componente de clase.

const [count, setCount] = useState(0) componente funcional.

this.state = {count: 0} componente de clase.

**13 - What happens when we change the state of a component?**

El valor previo es suplantado por el nuevo.

**14 -Write a component that renders a list of elements, given a prop**

that contains an array of objects in the following form:  
{ firstname: "demo", lastname: "demo", dni: 1234 }

```
import React from "react";

export default function demo({array}) {
  return (
    <div>
      {array.map((e) => {
        return (
          <div key={e.dni}>
            {e.firstname}
            {e.dni}
          </div>
        );
      })}
    </div>
  );
}
```

**15-Write a component that receives a prop called "data", and renders an H1 with the content of data**

```
import React from "react";

export default function demo({data}) {
  return (
    <div>
      <h1>{data}</h1>
    </div>
  );
}
```

16 - El código no tiene ningún error.

**17 - Explain, in your own words, what this component does.**

Al hacer click en el boton que dice "Click here" este llama a la funcion "click" y esta setea un nuevo valor a "state" sumandole + 1.

**18 - How would you make a Rest API call from JavaScript?**

Los metodos que utilizaria serian, axios o fetch.

```
const resp = await axios.get(URL).then((a) => {
  return a.data;
});
```

```
const resp = await fetch(URL).then(response => response.json()).then(data => {  
  return data;  
});
```

### **19 - What is the use of the useEffect hook?**

Es un hook que nos permite definir efectos. Le indica a react que luego de renderizar un componente este tiene que hacer algo.

### **20 - How would you develop a custom hook that exposes methods to save and modify a counter? The hook must have a parameter that allows the developer to specify how much the counter should add for each call to the setter.**

```
Const [count, setCount] = useState (0)
```