MCQs Solution:-

1. What kind of component import React from 'react' is?
A. stateless component
B. stateful component
C. pure component

2. What is used in ReactJs to increase performance
A. Both B and c
B. Original DOM
C. Virtual DOM
D. None of the above

3. What is the state in react?
A. A permanent storage
B. **Internal storage of the component**
C. Both A and B
D. None of the above

4. How do you handle passing through the component tree without having to pass props down manually at every level?
A. React Send
B. React Pinpoint
C. React Router
D. **React Context**

5. For controlled components in react
A. Source of truth is DOM
B. Source of truth can be anything
C. Source of truth is component state
D. None of the above

6. What happens when the following render() method executes?
```
render(){
        let langs = ["Ruby","ES6","Scala"]
        return (<div>
        {langs.map(it => <p>{it}</p>)}</div>)
}
```

A. Error. Cannot use direct JavaScript code in JSX
B. Error. Should be replaced with a for..loop for correct output
C. **Displays the list of languages in the array**

D. Displays nothing

7. What will happen when this useEffect hook is executed, assuming name is not already equal to John?

```
useEffect(() => {
setName('John');
}, [name]);
```

A. It will cause an error immediately
B. It will execute the code inside the function, but only after waiting to ensure that no other
 component is accessing the name variable
C. **It will update the value of name once and not run again until name is changed from the outside**
D. It will cause an infinite loop.

8. Keys are given to a list of elements in react. These keys should be -

A. Unique in the DOM
B. Do not requires to be unique
C. **Unique among the siblings only**
D. All of the above

9. If a function component should always render the same way given the same props, what is a
 simple performance optimization available for it?

A. **Wrap it in the React.memo higher-order component.**
B. Implement the useReducer Hook.
C. Implement the shouldComponentUpdate lifecycle method.
D. Implement the useMemo Hook

10. What happens when you call setState() inside the render() method?

A. Repetitive output appears on the screen
B. **Nothing happens.**
C. Duplicate key error
D. Stack overflow error