

MCQ on ReactJS

WDPF Round 51----

1. React is a _____

- a) Javascript library
- b) Javascript framework
- c) Both of above
- d) None of above

Note: ReactJS is a javascript library for building user interfaces. Its not a framework

2. ReactJS covers _____

- a) User Interface layer in an application
- b) Data layer in an application
- c) Both a and b
- d) None of above

Note: ReactJS is a javascript library for building user interfaces. it covers only user interface layer of an application

3. ReactJS uses _____ to increase performance

- a) Virtual DOM
- b) Original DOM
- c) Both of above
- d) None of above

Note: ReactJS uses virtual DOM to increase performance

4. React is _____

- a) Component based
- b) Module based
- c) Both of above
- d) None of above

5. Consider following example

```
var Helloworld=(props)=>
```

```
{
  return(
    <div> hello world 1</div>
    <div> Hello world 2</div>
  );
}
```

```
ReactDOM.render(<Helloworld/>,mountNode)
```

What will be the output?

- a) Hello world 1
- b) Hello world 2
- c) Hello world 1 Hello world 2
- d) Error

Note: Two adjacent element in JSX should be wrapped in an element so this program will result an error

6. Number of elements, a valid react component can return

- a) 1
- b) 2
- c) 3
- d) 4

Note: in react component we can return only one element

7. State in react is _____

- a) A permanent storage
- b) Internal storage of the component
- c) Both of above
- d) None of above

Note: state in react is the storage of component

8. props in react can _____

- a) Be changed inside the component
- b) Not be changed in the component
- c) Be changed in side other component
- d) None of above

Note: props cannot be changed in the component

9. In ReactJS, props can be used to pass

- a) Properties to the component
- b) Event handler to component
- c) Both of above
- d) None of above

Note: in ReactJS props can be used to pass properties and event handlers to react component

10. The state in react can be updated by call to setState method. These calls are

- a) Synchronous in nature
- b) Asynchronous in nature**
- c) Are asynchronous but can be made synchronous when required
- d) None of above

Note: Call to setState in reactjs is asynchronous in nature and multiple calls can be batched for better performance

11. As soon as the state of react component is changed, component will

- a) Does nothing , you have to call render method to render the component again
- b) re-renders the component**
- c) be created again from scratch
- d) None of above

Note: As soon as state is updated, component re-renders itself

12. React Lifecycle method static

getDerivedStateFromProps(props , state) is called when ____

- a) Component is created for the first time
- b) State of the component is updated
- c) Both of above**
- d) None of above

Note: static getDerivedStateFromProps(props , state) is called in both cases , when component is created and when component is updated

13. componentDidMount lifecycle method is called when ____

- a) Component is created for the first time**
- b) Component is updated
- c) Both of above
- d) None of above

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

- a) Unique in the DOM
- b) Unique among the siblings only**
- c) Do not requires to be unique
- d) None of above

Note: Keys given to the list of elements in react should be unique among the siblings only.

15. For controlled components in react

- a) Source of truth is DOM
- b) Source of truth is component state**
- c) Source of truth can be anything
- d) None of above

Note: For controlled components in react, source of truth is Component state

16. For uncontrolled components in react

- a) Source of truth is DOM**
- b) Source of truth is component state
- c) Source of truth can be anything
- d) None of above.

Note: For un-controlled components in react, source of truth is DOM.

17. To upload a file from react component, A developer will require to write

- a) A controlled component
- b) An uncontrolled component**
- c) Can be done from both
- d) None of above

Note: File upload cannot be done from controlled components because it requires user input

18. Ref in react component is used to assign reference to DOM elements. Ref can be created by

- a) Calling React.createRef method
- b) Assigning a value to ref attribute in JSX
- c) Both of above**
- d) None of above

Note: reference can be created either by calling React.createRef or by assigning the value to ref attribute of an element

19. Everything in React is a _____

- a) Module
- b) Component**
- c) Package
- d) Class

20. In which directory React Components are saved?
- a) Inside js/components/
 - b) Inside vendor/components/
 - c) Inside external/components/
 - d) Inside vendor/
21. How many elements does a react component return?
- a) 2 Elements
 - b) 1 Element
 - c) Multiple Elements
22. What is state in React?
- a) A persistent storage.
 - b) An internal data store (object) of a component.
23. What is Babel?
- a) A transpiler.
 - b) An interpreter
 - c) A Compiler
 - d) Both Compiler and Transpiler
24. What does the "webpack" command do?
- a) Transpiles all the Javascript down into one file
 - b) Runs react local development server.
 - c) A module bundler
25. What port is the default where the webpack-dev-server will run?
- a) 3000
 - b) 8080
 - c) 3306
26. What is ReactJS?
- a) Server side Framework
 - b) User-interface framework
 - c) A Library for building interaction interfaces
27. What are the two ways that data gets handled in React?
- a) state & props
 - b) services & components
28. In React what is used to pass data to a component from outside?
- a) setState
 - b) render with arguments
 - c) props
 - d) PropTypes
29. We can go for keys when there is possibility that our user could change the data.
- a) Keys
 - b) ref
 - c) both
 - d) none of above
30. JSX is typesafe.
- a) True
 - b) False
31. React merges the object you provide into the current state using _____.
- a) setState()
 - b) State()
32. Arbitrary inputs of components are called _____.
- a) Keys
 - b) Props
 - c) Elements
 - d) Ref
33. _____ can be done while more than one element needs to be returned from a component.
- a) Abstraction
 - b) Packing
 - c) Insulation
 - d) Wrapping
34. Which of the following needs to be updated to achieve dynamic UI updates?
- a) State
 - b) Props
35. Lifecycle methods are mainly used _____.
- a) To keep track of event history
 - b) to enhance components
 - c) freeup resources
 - d) none of the options

36. State can be initialized when code is loaded or state can be set on event changes.
a) False
b) True
37. ref is used to refer an element / component returned by _____.
a) react()
b) render()
c) reduce()
d) refer()
38. In JSX most of the errors can be caught during _____.
a) Interpretation
b) Execution
c) Compilation
d) Build
39. Components cannot refer to other components in their output.
a) True
b) False
40. JSX is faster because it performs _____ while compiling code to JavaScript
a) Modification
b) Compression
c) Optimization
d) Encryption
41. If our elements are dynamic, react can keep track of the changes using keys.
a) True
b) False
42. Function that does not change its results for the same set of inputs are called _____.
a) Pure functions
b) Impure Functions
43. What is the smallest building block of ReactJS?
a) none of the options
b) props
c) elements
d) components
44. An altered component may be uniquely identified with the help of ref.
a) True
b) False
45. React considers everything as _____.
a) User interface
b) elements
c) components
d) Objects
46. React keeps track of what items have changed, been added, or been removed from a list using _____.
a) state
b) props
c) keys
d) ref
47. React is mainly for building _____.
a) Database
b) Connectivity
c) User interface
d) Design platform
48. React supports all the syntax of _____.
a) ES6
b) Redux
c) None of options
d) Native Java
49. In React state can be accessed using _____.
a) current
b) state
c) current()
d) state()
50. How can we prevent default behavior in React?
a) None of the options
b) using revokeDefault()
c) Using preventDefault()
d) using avoidDefault()

51. Invoked once, only on the client, after rendering occurs.
- a) `componentWillUnmount`
 - b) `shouldComponentUpdate`
 - c) `componentWillMount`
 - d) **`ComponentDidMount`**
52. What is used in ReactJs to increase performance?
- a) Both B and c
 - b) Original DOM
 - c) **Virtual DOM**
 - d) None of the above
53. Which of the following below act as the input of a class-based component?
- a) class
 - b) factory
 - c) render
 - d) **Props**
54. What is the declarative way to render a dynamic list of components based on values in an array
- a) Using the reduce array method
 - b) Using the `<Each />` component
 - c) **Using the `Array.map()` method**
 - d) With a for/while loop
55. Must API for every ReactJs component
- a) `SetinitialComponent`
 - b) **`renderComponent`**
 - c) `render`
 - d) All of the above
56. Who develop react.js?
- a) Apple
 - b) **Facebook**
 - c) Twitter
 - d) Google