

# React-General Task

Total des points 66/70 ?

/ الاسم

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1- What is the difference between React elements and React components in React? 1/1

- ☐ There is no difference
- ☒ React elements are plain objects that describe what to render, while React components are functions or classes that produce React elements
- ☐ React components are plain objects that describe what to render, while React elements are functions or classes that produce React components

2- What is the purpose of the useRef hook in React? 1/1

- ☒ To access a mutable value that persists across renders
- ☐ To manage component state
- ☐ To manage component props



3- What is used to handle code-splitting?

1/1

- ☒ React.lazy
- ☐ React.memo
- ☐ React.split
- ☐ React.fallback

4- What is the purpose of the useMemo hook in React?

1/1

- ☒ To memoize a value, and recompute it only when its dependencies change
- ☐ To manage component props
- ☐ To manage component state

5- Which of the following are two ways to handle data in react?

1/1

- ☐ services and components
- ☒ State and props
- ☐ state and services
- ☐ state and component



6- What is the purpose of the withRouter higher-order component in React Router? 1/1

- ☐ To connect a component to the Redux store
- ☐ To add authentication to a component
- ☒ To pass routing props, such as match, location, and history, to a wrapped component

7- What is JSX in React? 1/1

- ☒ A syntax extension for JavaScript that allows you to write HTML-like code in your JavaScript files
- ☐ A new programming language that is used to write React components
- ☐ A library for managing component state in React

8- What is the purpose of the useCallback hook in React? 1/1

- ☐ To manage component props
- ☐ To manage component state
- ☒ To memoize a function, and recompute it only when its dependencies change



9- What is the difference between props and state in React?

1/1

- ☐ There is no difference
- ☒ Props are immutable, passed from parent to child components, while state is mutable, and managed within a component
- ☐ State is immutable, passed from parent to child components, while props is mutable, and managed within a component

10- What is the purpose of the useContext hook in React?

1/1

- ☒ To consume a context value that is provided by an ancestor component
- ☐ To manage component props
- ☐ To manage component state

11- What is the purpose of the combineReducers function in Redux?

1/1

- ☐ To create a new store instance
- ☒ To combine multiple reducers into a single reducer function
- ☐ To create middleware for the store



12- Choose the library which is most often associated with react?

1/1

- ☐ Sinon
- ☒ Jest
- ☐ Mocha
- ☐ Chai

13- What is the difference between an action and a reducer in Redux?

1/1

- ☐ There is no difference
- ☐ A reducer is a plain JavaScript object that describes a change in the state, while an action is a function that takes the current state and an action, and returns a new state
- ☒ An action is a plain JavaScript object that describes a change in the state, while a reducer is a function that takes the current state and an action, and returns a new state

14- What is the purpose of the useSelector hook in Redux?

1/1

- ☒ To select a slice of state from the store
- ☐ To create a new store instance
- ☐ To connect a component to the store



15- What is the purpose of the Redux DevTools extension?

1/1

- ☐ To manage component props
- ☐ To manage component state
- ☒ To provide a powerful debugging and inspection tool for Redux applications

16- What is the purpose of the Redux Toolkit?

1/1

- ☒ To provide a simpler and more opinionated API for working with Redux
- ☐ To provide a library for managing component state in React
- ☐ To provide a tool for generating React components

17- How many elements can a valid react component return?

1/1

- ☒ 1
- ☐ 2
- ☐ 3
- ☐ 4



18- What is the difference between the createStore function and the configureStore function in Redux?

1/1

- ☐ There is no difference
- ☒ The createStore function is a low-level function for creating a store, while the configureStore function is a higher-level function that provides opinionated defaults and pre-configured middleware
- ☐ The configureStore function is a low-level function for creating a store, while the createStore function is a higher-level function that provides opinionated defaults and pre-configured middleware

19- What is the difference between the bindActionCreators and the useDispatch function in Redux?

1/1

- ☒ bindActionCreators is used to bind action creators to the dispatch function, while useDispatch is a hook that returns the dispatch function
- ☐ useDispatch is used to bind action creators to the dispatch function, while bindActionCreators is a hook that returns the dispatch function
- ☐ There is no difference

20- What is the purpose of the connect function in Redux?

1/1

- ☐ To create a new store instance
- ☒ To connect a component to the store
- ☐ To create middleware for the store



21- What is the purpose of the compose function in Redux?

1/1

- ☐ To combine multiple reducers into a single reducer function
- ☒ To compose multiple functions, such as middleware and enhancers, into a single function
- ☐ To create a new store instance

22- What is the difference between the action creator and the action in Redux? 1/1

- ☐ There is no difference
- ☒ An action creator is a function that creates an action, while an action is a plain JavaScript object that describes a change in the state
- ☐ An action is a function that creates an action, while an action creator is a plain JavaScript object that describes a change in the state

23- What is the purpose of the redux-thunk middleware in Redux?

1/1

- ☒ To allow action creators to return functions that can dispatch actions asynchronously
- ☐ To manage component state
- ☐ To manage component props





24- What is the purpose of the createAsyncThunk function in Redux Toolkit? 1/1

- ☐ To manage component props
- ☐ To manage component state
- ☒ To create an async action creator that automatically generates pending, fulfilled, and rejected action types based on a base action type

25- In React, component properties should be kept in an object called? 0/1

- ☐ A. component
- ☐ B. super
- ☐ C. state
- ☒ D. props

26- What is the difference between the dispatch function and the getState function in Redux? 1/1

- ☐ There is no difference
- ☒ The dispatch function is used to dispatch actions to the store, while the getState function is used to get the current state of the store
- ☐ The getState function is used to dispatch actions to the store, while the dispatch function is used to get the current state of the store



27- What is the purpose of the useMemo hook in React?

1/1

- ☐ To manage component props
- ☐ To manage component state
- ☒ To memoize a computed value, and recompute it only when its dependencies change

28- What is the difference between the useReducer hook and Redux?

1/1

- ☐ There is no difference
- ☐ useReducer is a simpler state management tool, while Redux is a more advanced state management tool
- ☒ useReducer is a built-in state management tool in React, while Redux is a separate library for state management in React

29- Which of the following is used in React.js to increase performance?

1/1

- ☒ virtual DOM
- ☐ original DOM
- ☐ Both A and B
- ☐ none of the above



30- What is the purpose of the useCallback hook in React?

1/1

- ☒ To memoize a callback function, and recompute it only when its dependencies change
- ☐ To manage component state
- ☐ To manage component props

31- What is ReactJS?

1/1

- ☐ Server-side framework
- ☒ user interface framework
- ☐ both a and b
- ☐ none of the above

32- Identify the one which is used to pass data to components from outside

1/1

- ☐ Render with arguments
- ☐ setState
- ☐ PropTypes
- ☒ props



33- Who created React.js?

1/1

- ☐ Jordan Mike
- ☒ Jordan Walke
- ☐ Tim Lee
- ☐ Jordan Lee

34- In which language is React.js written?

1/1

- ☐ Python
- ☐ PHP
- ☐ Java
- ☒ JavaScript

35- What is Babel?

1/1

- ☒ JavaScript compiler
- ☐ JavaScript interpreter
- ☐ JavaScript transpiler
- ☐ None of the above



36- The \_\_\_\_\_ is an officially supported way to create React applications. 1/1

- ☐ A. create
- ☒ B. create-react-app
- ☐ C. react-app
- ☐ D. create react app

37- In MVC, what does React.js act as?

1/1

- ☐ Middleware
- ☐ Controller
- ☒ View
- ☐ Model

38- Among The following options, choose the one which helps react for keeping their data uni-directional? 1/1

- ☐ DOM
- ☒ Flux
- ☐ JSX
- ☐ Props



39- Using which of the following command can prevent default behaviour at in react? 1/1

- ☒ preventDefault()
- ☐ avoidDefault()
- ☐ revokeDefault()
- ☐ None of the above

40- Identify the smallest building block of React.JS. 1/1

- ☐ Props
- ☐ Elements
- ☒ Components
- ☐ None of the above

41- What is ReactJS mainly used for building? 1/1

- ☐ Database
- ☐ Connectivity
- ☒ User interface
- ☐ Design platform



42- What is the purpose of the useEffect hook in React?

1/1

- ☐ To manage component props
- ☐ To manage component state
- ☒ To perform side effects, such as fetching data, after a component has rendered

43- Which of the following function is used to change the state of react component?

1/1

- ☒ this.setState()
- ☐ this.state()
- ☐ this.setChangeState()
- ☐ None of the above

44- Among the following which is used to create a class inheritance?

1/1

- ☐ Inherits
- ☒ Extends
- ☐ Create
- ☐ this



45- Choose the correct data flow sequence of flux concept.

1/1

- ☒ Action -> Dispatcher -> Store -> View
- ☐ Action -> Dispatcher -> View -> Store
- ☐ Action -> Store -> View -> Dispatcher
- ☐ Dispatcher -> Action -> Store -> View

46- What is the purpose of the useContext hook in React?

1/1

- ☐ To manage component props
- ☐ To manage component state
- ☒ To share data between components without using props

47- What is the purpose of the useReducer hook in React?

1/1

- ☐ To manage component props
- ☒ To manage complex state transitions and actions
- ☐ To manage component state





48- Choose the method with refers to the parent class in ReactJS?

1/1

- ☐ this()
- ☒ super()
- ☐ iniherits()
- ☐ self()

49- JSX stands for \_\_\_\_\_

1/1

- ☒ Javascript XML
- ☐ JSON XML
- ☐ JSON
- ☐ Javascript and AngularJS

50- State whether true or false: React creates virtual DOM in memory.

1/1

- ☒ True
- ☐ False



51- Which company developed ReactJS?

1/1

- ☐ Apple
- ☒ Facebook
- ☐ Google
- ☐ Twitter

52- What is the difference between the combineReducers and the reduceReducers functions in Redux?

0/1

- ☐ There is no difference
- ☒ combineReducers is used to combine multiple reducers into a single reducer function, while reduceReducers is used to combine multiple reducer functions into a single reducer function
- ☐ combineReducers is used to combine multiple reducer functions into a single reducer function, while reduceReducers is used to combine multiple reducers into a single reducer function

53- Why is ref used?

0/1

- ☒ to refer to another JS file
- ☐ to call a function
- ☐ to bind the function
- ☐ to directly access the DOM node



54- Which method allows you to dispatch an action to change a state in your application? 1/1

- ☐ A. getState
- ☐ B. setState
- ☒ C. dispatch
- ☐ D. subscribe

55- What is the purpose of the createSlice function in Redux Toolkit? 1/1

- ☐ To create a new store instance
- ☒ To create a reducer function and action creators for a slice of state
- ☐ To create a middleware for the store

56- Which of the following makes stores available? 1/1

- ☐ A. COMPONENT
- ☐ B. CONTAINER
- ☐ C. ACTIONS
- ☒ D. PROVIDER



57- Which of them provide us debugging platform for Redux apps?

1/1

- ☐ A. Redux-Testing
- ☐ B. Redux-Middleware
- ☒ C. Redux-Devtools
- ☐ D. Redux-suscriber

58- What is the purpose of the useEffect hook in React?

1/1

- ☐ To manage component props
- ☐ To manage component state
- ☒ To perform a side effect after the component has been rendered

59- What is the purpose of the useRef hook in React?

1/1

- ☒ To store a mutable value that persists across renders
- ☐ To manage component state
- ☐ To manage component props



60- Pure functions are unpredictable

1/1

- ☐ A. TRUE
- ☒ B. FALSE
- ☐ C. Can be true or false
- ☐ D. Can not say

61- Reducers are a pure function in Redux.

1/1

- ☒ A. TRUE
- ☐ B. FALSE
- ☐ C. Can be true or false
- ☐ D. Can not say

62- Redux can have \_\_\_\_\_ store in your application

1/1

- ☒ A. single
- ☐ B. double
- ☐ C. multi
- ☐ D. None of the above



63- What is the difference between a functional component and a class component in React?

1/1

- ☐ There is no difference
- ☒ A functional component is a simple function that takes props as input and returns JSX, while a class component is a JavaScript class that extends `React.Component` and has a `render` method
- ☐ A class component is a simple function that takes props as input and returns JSX, while a functional component is a JavaScript class that extends `React.Component` and has a `render` method

64- Actions and states are held together by a function called?

1/1

- ☒ A. Reducer
- ☐ B. Redux
- ☐ C. subscribe
- ☐ D. view

65- Predictability of Redux is determined by \_\_\_\_\_ most important principles.

1/1

- ☐ A. Two
- ☒ B. Three
- ☐ C. Four
- ☐ D. Five



66- Which of the following is true about React?

1/1

- ☐ A. React is a JavaScript library for building user interfaces.
- ☐ B. React is used to build single page applications.
- ☐ C. React allows us to create reusable UI components.
- ☒ D. All of the above

67- What is the difference between the connect function and the useSelector hook in Redux? 1/1

- ☐ There is no difference
- ☒ The connect function is used to connect a component to the store, while the useSelector hook is used to select a slice of state from the store
- ☐ The useSelector hook is used to connect a component to the store, while the connect function is used to select a slice of state from the store

68- In ES6, how many ways of defining your variables?

1/1

- ☒ A. 3
- ☐ B. 4
- ☐ C. 5
- ☐ D. 6



69- React renders HTML to the web page by using a function called?

0/1

- ☐ A. ReactDOM.render()
- ☒ B. render()
- ☐ C. ReactDOM\_render()
- ☐ D. React.render()

70- What is the purpose of the useState hook in React?

1/1

- ☐ To manage component props
- ☒ To manage component state
- ☐ To perform side effects, such as fetching data, after a component has rendered

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