Identifiant secret

Epreuve de : ………………………………………..
Session : ……………… Date :……………………
Année universitaire :………………………………
Classe :……………………………………………
Nom :………………………………………………
Prénom :……………………………………………
N° Inscription :……………………………Salle :……………

Signatures des surveillants	Total des feuilles doubles remises

Identifiant secret

Examen	Session Principale/ Semestre 2
Matière: reactJS	**Classe : L2T**
Enseignant(e):	**Date:** 21/05/2024
Documents non autorisés	**Duration: 1H30**

Numéro de la double feuille	Total des doubles feuilles remises

Note attribuée

1. What is ReactJS?
    a. A JavaScript library for building user interfaces
    b. A CSS framework
    c. A backend framework
    d. A database management tool
2. Who developed ReactJS?
    a. Zoho
    b. Microsoft
    c. Facebook
    d. Google
3. What is a component in React?
    a. A part of the DOM
    b. A type of CSS class
    c. A reusable piece of UI
    d. A JavaScript function only
4. Which method is used to create components in React?
    a. React.createElementComponent()
    b. React.createElement()
    c. React.components()
    d. ReactDOM.createComponents()
5. What is JSX?
    a. A CSS preprocessor
    b. A database query language
    c. A JavaScript Syntax eXtension
    d. A .Net library
6. How do you write a function component in React?
    a. function ComponentName() {}
    b. fan ComponentName() {}
    c. f ComponentName() {}
    d. fct ComponentName() {}
7. How do you pass data to a component in React?
    a. Using JSX
    b. Using props
    c. Using CSS
    d. Using HTML
8. What is state in React?
    a. A class in React
    b. A function in React
    c. A built-in object used to store property values that belong to the component
    d. A part of the DOM tree

Signatures des correcteurs

NE RIEN ÉCRIRE DANS CETTE PARTIE

9. What is a fragment in React?
   a. A way to return multiple elements from a component
   b. A type of component
   c. A method to handle events
   d. A JS function
10. Which hook is used to handle state in a functional component?
    a. useEffect
    b. useContext
    c. useReducer
    d. useState
11. How do you create a fragment in JSX?
    a. <fr>
    b. <fr>
    c. <></>
    d.
12. What is the use of the context API in React?
    a. To create CSS styles
    b. To handle events
    c. To manage state globally
    d. To fetch data from db
13. How do you handle form submission in React?
    a. By using the onClick event handler
    b. By using the onLoad event handler
    c. By using the onSubmit event handler
    d. By using the onChange event handler
14. What is a higher-order component (HOC) in React?
    a. A built-in component
    b. A function that takes a component and returns a new component
    c. A lifecycle method
    d. A state management tool
15. How do you conditionally render a component?
    a. Using if-else statements
    b. Using ternary operators
    c. Using logical && operators
    d. All of the above
16. What is a stateful component?
    a. A component that manages its own state
    b. A component that doesn't manage its own state
    c. A component without props
    d. A component with lifecycle methods
17. What is the use of the useReducer hook?
    a. To manage complex state logic
    b. To handle side effects
    c. To create context
    d. To fetch data
18. What is the purpose of the useRef hook?
    a. To create a mutable object that persists across renders
    b. To manage state
    c. To manage context
    d. To handle side effects

19. How do you use default props in a component?
    a. Component.defaultProps = {}
    b. Component.propTypes = {}
    c. Component.props = {}
    d. Component.def = {}
20. How do you import React in a file?
    a. import React from 'react';
    b. require('react')
    c. include React from 'react';
    d. import all
21. True or false? In React, you can use a ternary operator in a component's return statement in React.
    a. True
    b. False
22. React Router is...
    a. A stand-alone package that you can add to a React app.
    b. A built-in part of React-DOM.
    c. A built-in part of React.
23. React Router has a **<Link>** element.
    a. True
    b. False
24. Please choose the valid command to install react-player.
    a. npm install react-player
    b. npm-install react-player
    c. npm-install-react-player
25. True or false? webpack is a module bundler.
    a. True
    b. False.
26. What will be the output of the code below?
    let name; if (Math.random() > 0.5) { name = "Mike"} else { name = "Susan"}
    a. It will always be Mike
    b. It will be sometimes Mike, and sometimes Susan, randomly
    c. It will be 0.5
    d. It will always be Susan
27. Is the following component syntactically correct?

```
import car from "./assets/images/car.jpg";
function CarImage() {
  return (
    <img
      height={200}
      src={car}
      alt="Car image"
    />
  );
};
export default CarImage;
```

    a. Yes
    b. No
28. What is an asset?
    a. Images, stylesheets, fonts
    b. Components
    c. Images, video, and components
29. What is the syntax used to add a new dev dependency to a React app? Select all that apply.
    a. npm i –save-dev some-package-name
    b. node init some-package-name
    c. npm init some-package-name
    d. npm install –save-dev some-package-name

30. If your app can compile without it, you can keep an asset in a public folder.
- a. True
- b. False

31. Is the following description true or false? A Single Page Application allows the user to interact with the website without downloading entire new webpages. Instead, it rewrites the current webpage as the user interacts with it. The outcome is that the application will feel faster and more responsive to the user.
- a. True
- b. False

32. How do React components turn into the webpage that you see?
- a. In simple terms, a React component gets downloaded from the server every time a user interacts with a React app.
- b. In simple terms, React downloads a VDOM instance from the server to render all its pages.
- c. In simple terms, a React component has a one-to-one relationship to a HTML element that is displayed on the webpage and React keeps track of which HTML elements need to be updated.

33. A SPA can't have regular anchor tag elements like a traditional web app can. The reason for this is that an anchor tag will load another html file from a server and refresh the page.
- a. True
- b. False

34. A total page refresh is not the way that a SPA works.
- a. True
- b. False

35. Complete the sentence: an SPA comes with its own special implementation of anchor tags and links, which only give an illusion of loading different pages to the end user, when in fact they simply...
- a. load a single component into multiple elements of the real DOM into which the virtual DOM tree gets mounted and updated
- b. load different components into a single element of the virtual DOM into which the real DOM tree gets mounted and updated
- c. load different components into a single element of the real DOM into which the virtual DOM tree gets mounted and updated

36. What did you need to install in order to create routes?
- a. router-dom
- b. three.js
- c. react-router-dom
- d. react-dom

37. Instead of anchor tags, what tag did you use with React Router?
- a. the element attribute
- b. the to attribute
- c. the To tag
- d. the Link tag

38. What's wrong with this code?

```
<Link>
 Home
<Link to="/" className="nav-item" href="/">
```
- a. The **to** attribute can't have just the **"/"** value.
- b. You cannot have hyphens in the value of the **className** attribute.
- c. The **href** attribute should not be used here.

39. Choose the correct syntax to build a new Date object in JavaScript?
- a. Date();
- b. new Date();
- c. new Date;
- d. New Date();

40. If an object instance of the Audio constructor is saved in a variable named "song", what property on the "song" object can you use to check if the song is currently playing?
- a. song.pause();
- b. song.paused
- c. song.play()