Status	Finished
Started	Friday, 30 January 2026, 4:41 PM
Completed	Wednesday, 4 February 2026, 5:28 AM
Duration	4 days 12 hours
Marks	201.00/208.00
Grade	**9.66** out of 10.00 (**96.63**%)

Question 1

Correct

Mark 1.00 out of 1.00

What is the correct way to select all records where the "FirstName" starts with an "a"?

- a. WHERE FirstName LIKE 'a%' ✓
- b. WHERE FirstName LIKE 'a'
- c. WHERE FirstName = 'a'
- d. WHERE FirstName LIKE '%a'

The correct answer is: WHERE FirstName LIKE 'a%'

Question 2

Correct

Mark 1.00 out of 1.00

What is the default value of `flex-direction`?

- a. stack
- b. column
- c. row-reverse
- d. row ✓

The correct answer is: row

Question 3

Correct

Mark 1.00 out of 1.00

What is a "Rate Limiter" used for?

- a. To slow down the internet speed
- b. To limit the number of requests a client can make in a given time period ✓
- c. To limit the number of variables in a script
- d. To limit the number of users in a database

The correct answer is: To limit the number of requests a client can make in a given time period

Question 4

Correct

Mark 1.00 out of 1.00

Which property is used to control how an image or video is scaled within its box?

- a. image-size
- b. object-fit ✓
- c. scale-type
- d. fit-content

The correct answer is: object-fit

Question 5

Correct

Mark 1.00 out of 1.00

How can you use ES Modules (`import/export`) in a Node.js project?

- a. Set `"type": "module"` in package.json
- b. Use the `.mjs` extension
- c. Both A and B are correct ✓
- d. You cannot use ESM in Node.js

The correct answer is: Both A and B are correct

Question 6

Correct

Mark 1.00 out of 1.00

What is the semantic purpose of the <main> tag?

- a. To hold the logo and main navigation
- b. To define the primary sidebar
- c. To wrap the central, unique content of the body ✓
- d. To act as a parent for all <section> tags

The correct answer is: To wrap the central, unique content of the body

Question 7

Correct

Mark 1.00 out of 1.00

What is the default return value of a function that doesn't have a `return` statement?

- a. undefined ✓
- b. 0
- c. NaN
- d. null

The correct answer is: undefined

Question 8

Correct

Mark 1.00 out of 1.00

Which command is used to take away permissions from a user?

- a. DENY
- b. REMOVE
- c. REVOKE ✓
- d. TAKE

The correct answer is: REVOKE

Question 9

Correct

Mark 1.00 out of 1.00

Which hook provides a stable reference to a value across renders but doesn't trigger updates?

- a. useRef ✓
- b. useId
- c. useMemo
- d. useState

The correct answer is: useRef

Question 10

Correct

Mark 1.00 out of 1.00

Which statement is used to skip the current iteration of a loop?

- a. jump
- b. skip
- c. next
- d. continue ✓

The correct answer is: continue

Question 11

Correct

Mark 1.00 out of 1.00

In the Command pattern, what is the "Receiver"?

- a. The console
- b. The user
- c. The object that performs the actual work ✓
- d. The network

The correct answer is: The object that performs the actual work

Question 12

Correct

Mark 1.00 out of 1.00

How do you apply styles to every element inside a `<div>`?

- a. div.child
- b. div all
- c. div * ✓
- d. div > *

The correct answer is: div *

Question 13

Correct

Mark 1.00 out of 1.00

What is a closure?

- a. A private class method
- b. A function that has access to its outer function's scope ✓
- c. A syntax for ending a loop
- d. A way to close the browser window

The correct answer is: A function that has access to its outer function's scope

Question 14

Correct

Mark 1.00 out of 1.00

Why is `e.persist()` sometimes used in older React versions?

- a. To stop event bubbling
- b. To prevent React from nullifying the synthetic event object for reuse ✓
- c. To keep the component from unmounting
- d. To save data to local storage

The correct answer is: To prevent React from nullifying the synthetic event object for reuse

Question 15

Correct

Mark 1.00 out of 1.00

Which method returns the index of the first occurrence of a value in an array?

- a. findIndex()
- ● b. indexOf() ✓
- c. position()
- d. search()

The correct answer is: indexOf()

Question 16

Correct

Mark 1.00 out of 1.00

Which property allows you to access the parent of a DOM node?

- a. superNode
- ● b. parentElement ✓
- c. root
- d. owner

The correct answer is: parentElement

Question 17

Correct

Mark 1.00 out of 1.00

Which group of patterns deals with object creation mechanisms?

- ● a. Creational Patterns ✓
- b. Behavioral Patterns
- c. Functional Patterns
- d. Structural Patterns

The correct answer is: Creational Patterns

Question 18

Correct

Mark 1.00 out of 1.00

How do you apply a style conditionally in React?

- a. Use the `style-condition` attribute
- b. You cannot change styles conditionally
- c. Use an `if` statement inside the JSX tag
- ● d. Use a ternary operator or template literals to change the className ✓

The correct answer is: Use a ternary operator or template literals to change the className

Question 19

Correct

Mark 1.00 out of 1.00

Which CSS property is used to set the distance between characters in a text?

- a. text-spacing
- ● b. letter-spacing ✓
- c. word-spacing
- d. char-spacing

The correct answer is: letter-spacing

Question 20

Correct

Mark 1.00 out of 1.00

Which command is used to give a user permission to access the database?

- a. GIVE
- b. ALLOW
- c. PERMIT
- d. GRANT ✓

The correct answer is: GRANT

Question 21

Correct

Mark 1.00 out of 1.00

Which HTML element is used for the title of the document?

- a. <head_title>
- b. <header>
- c. <title> ✓
- d. <meta_title>

The correct answer is: <title>

Question 22

Correct

Mark 1.00 out of 1.00

Which attribute is used to specify that an element is not yet relevant?

- a. invisible
- b. aria-hidden="true"
- c. display="none"
- d. hidden ✓

The correct answer is: hidden

Question 23

Correct

Mark 1.00 out of 1.00

Which pattern defines a one-to-many dependency between objects so that when one object changes state, all its dependents are notified?

- a. Strategy
- b. Command
- c. Observer ✓
- d. Singleton

The correct answer is: Observer

Question 24

Correct

Mark 1.00 out of 1.00

Which property allows you to add multiple background images?

- a. background: multiple(url(1.png), url(2.png));
- b. background-images: url(1.png) url(2.png);
- c. It is not possible to have multiple backgrounds
- d. background-image: url(1.png), url(2.png); ✓

The correct answer is: background-image: url(1.png), url(2.png);

Question 25

Correct

Mark 1.00 out of 1.00

Which principle is violated if a class handles both User Authentication and Database Logging?

- ○ a. Interface Segregation
- ○ b. Liskov Substitution
- ○ c. None
- ◉ d. Single Responsibility ⊘

The correct answer is: Single Responsibility

Question 26

Correct

Mark 1.00 out of 1.00

What is "Functional Programming"?

- ◉ a. A paradigm based on pure functions and avoiding shared state/mutable data ⊘
- ○ b. A way to program robots
- ○ c. Coding without using classes
- ○ d. Writing code using only functions

The correct answer is: A paradigm based on pure functions and avoiding shared state/mutable data

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Question 27

Correct

Mark 1.00 out of 1.00

Which element is used to define a short quote?

- ○ a. <blockquote>
- ○ b. <quote>
- ○ c. <cite>
- ◉ d. <q> ⊘

The correct answer is: <q>

Question 28

Correct

Mark 1.00 out of 1.00

What is the difference between UNION and UNION ALL?

- ◉ a. UNION removes duplicates; UNION ALL does not ⊘
- ○ b. There is no difference
- ○ c. UNION ALL is slower
- ○ d. UNION ALL only works with numbers

The correct answer is: UNION removes duplicates; UNION ALL does not

---

Question 29

Correct

Mark 1.00 out of 1.00

What is the purpose of the `url` module?

- ◉ a. To parse and format URL strings ⊘
- ○ b. To manage browser history
- ○ c. To create a short URL
- ○ d. To download files from a URL

The correct answer is: To parse and format URL strings

Question 30

Correct

Mark 1.00 out of 1.00

What is an "Anti-pattern"?

- ○ a. A common response to a recurring problem that is usually ineffective or counterproductive ✓
- ○ b. A pattern used in old languages like COBOL
- ○ c. A pattern that uses no classes
- ○ d. A pattern that is hard to learn

The correct answer is: A common response to a recurring problem that is usually ineffective or counterproductive

Question 31

Correct

Mark 1.00 out of 1.00

What is the difference between DROP and TRUNCATE?

- ○ a. TRUNCATE deletes the table structure; DROP only deletes the data
- ○ b. DROP is only for views
- ○ c. There is no difference
- ○ d. DROP deletes the table structure; TRUNCATE only deletes the data ✓

The correct answer is: DROP deletes the table structure; TRUNCATE only deletes the data

Question 32

Correct

Mark 1.00 out of 1.00

What is the purpose of the `<time>` tag?

- ○ a. To represent a specific period in time or a date ✓
- ○ b. To measure the page load speed
- ○ c. To set the time zone of the document
- ○ d. To display a clock on the page

The correct answer is: To represent a specific period in time or a date

Question 33

Correct

Mark 1.00 out of 1.00

Which event is triggered when a stream has no more data to provide?

- ○ a. 'exit'
- ○ b. 'finish'
- ○ c. 'close'
- ○ d. 'end' ✓

The correct answer is: 'end'

Question 34

Correct

Mark 1.00 out of 1.00

Which core module is used to create a basic web server?

- ○ a. net
- ○ b. express
- ○ c. url
- ○ d. http ✓

The correct answer is: http

Question 35

Correct

Mark 1.00 out of 1.00

Which tool is used to scan Node.js dependencies for known vulnerabilities?

- a. npm check
- b. node-security
- c. npm scan
- d. npm audit ✓

The correct answer is: npm audit

Question 36

Correct

Mark 1.00 out of 1.00

What is the purpose of the `package-lock.json` file?

- a. To speed up the JavaScript execution
- b. To store the source code of dependencies
- c. To ensure consistent dependency versions across different installations ✓
- d. To lock the project so no one can edit it

The correct answer is: To ensure consistent dependency versions across different installations

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Question 37

Correct

Mark 1.00 out of 1.00

What is the "Spread Operator"?

- a. ***
- b. ===
- c. &&&
- d. ... ✓

The correct answer is: ...

Question 38

Correct

Mark 1.00 out of 1.00

How do you select all columns from a table named "Users"?

- a. SELECT Users
- b. EXTRACT * FROM Users
- c. SELECT [all] FROM Users
- d. SELECT * FROM Users ✓

The correct answer is: SELECT * FROM Users

Question 39

Correct

Mark 1.00 out of 1.00

In the Proxy pattern, what is a "Protection Proxy"?

- a. A proxy used in firewalls
- b. A proxy that encrypts the data
- c. A proxy that controls access to an object based on permissions ✓
- d. A proxy that prevents the object from being deleted

The correct answer is: A proxy that controls access to an object based on permissions

Question 40

Correct

Mark 1.00 out of 1.00

Which property defines how an element is positioned relative to its container when using `sticky`?

- a. sticky-top
- b. top ⊘
- c. margin-top
- d. offset

The correct answer is: top

Question 41

Correct

Mark 1.00 out of 1.00

How do you round a number to the nearest integer?

- a. Math.round() ⊘
- b. Math.floor()
- c. Math.rnd()
- d. Math.ceil()

The correct answer is: Math.round()

Question 42

Correct

Mark 1.00 out of 1.00

Which element is used to display a popup menu or a context menu?

- a. <select>
- b. <popup>
- c. <context>
- d. <menu> ⊘

The correct answer is: <menu>

Question 43

Correct

Mark 1.00 out of 1.00

What is the purpose of the `useDebugValue` hook?

- a. To check for memory leaks
- b. To display a label for custom hooks in React DevTools ⊘
- c. To print errors to the console
- d. To pause the execution of a hook

The correct answer is: To display a label for custom hooks in React DevTools

Question 44

Correct

Mark 1.00 out of 1.00

Which pattern is used to restore an object to its previous state (undo/rollback)?

- a. Memento ⊘
- b. Command
- c. Prototype
- d. State

The correct answer is: Memento

Question 45

Correct

Mark 1.00 out of 1.00

Which tool is used to transform JSX into regular JavaScript?

- a. Babel ⊘
- b. Node.js
- c. Vite
- d. Webpack

The correct answer is: Babel

Question 46

Correct

Mark 1.00 out of 1.00

Which attribute is used to specify the relationship between the current document and the linked document in a <link> tag?

- a. type
- b. media
- c. rel ⊘
- d. href

The correct answer is: rel

Question 47

Correct

Mark 1.00 out of 1.00

Which element is used to group several rows of content at the bottom of a table?

- a. <tfoot> ⊘
- b. <bottom_table>
- c. <tbottom>
- d. <tf>

The correct answer is: <tfoot>

Question 48

Correct

Mark 1.00 out of 1.00

Which property is used to set the maximum width of an element?

- a. max-width ⊘
- b. upper-width
- c. element-max
- d. width-limit

The correct answer is: max-width

Question 49

Correct

Mark 1.00 out of 1.00

Which property in the `path` module returns the file extension?

- a. path.ext()
- b. path.suffix()
- c. path.extname() ⊘
- d. path.extension()

The correct answer is: path.extname()

Question 50

Correct

Mark 1.00 out of 1.00

What does `vw` stand for?

- a. Viewport Weight
- b. Visible Width
- c. Vertical Width
- d. Viewport Width ⊘

The correct answer is: Viewport Width

Question 51

Correct

Mark 1.00 out of 1.00

How do you send a JSON response in Express?

- a. res.json(data) ⊘
- b. res.sendJSON(data)
- c. res.send(JSON.stringify(data))
- d. res.write(data)

The correct answer is: res.json(data)

Question 52

Correct

Mark 1.00 out of 1.00

Which CSS naming convention uses "Block-Element-Modifier"?

- a. Atomic CSS
- b. SMACSS
- c. BEM ⊘
- d. OOCSS

The correct answer is: BEM

Question 53

Correct

Mark 1.00 out of 1.00

Which attribute defines the URL where form data should be sent?

- a. method
- b. target
- c. route
- d. action ⊘

The correct answer is: action

Question 54

Correct

Mark 1.00 out of 1.00

What is the "N+1 Problem" in ORMs?

- a. A math error
- b. A security vulnerability
- c. A type of join error
- d. A performance issue where one query is made to fetch parent objects and N queries are made to fetch children ⊘

The correct answer is: A performance issue where one query is made to fetch parent objects and N queries are made to fetch children

Question 55

Correct

Mark 1.00 out of 1.00

What is the purpose of the `@media` rule?

- a. To define variables
- b. To import external CSS files
- c. To create animations
- ⦿ d. To apply styles conditionally based on device characteristics ⊘

The correct answer is: To apply styles conditionally based on device characteristics

Question 56

Correct

Mark 1.00 out of 1.00

Which pattern defines the skeleton of an algorithm in an operation, deferring some steps to subclasses?

- a. Bridge
- b. Factory
- c. Strategy
- ⦿ d. Template Method ⊘

The correct answer is: Template Method

Question 57

Correct

Mark 1.00 out of 1.00

How do you initialize an Express application?

- a. const app = new Express();
- b. const app = http.express();
- ⦿ c. const app = express(); ⊘
- d. const app = express.start();

The correct answer is: const app = express();

Question 58

Correct

Mark 1.00 out of 1.00

Which pattern defines a family of algorithms, encapsulates each one, and makes them interchangeable?

- ⦿ a. Strategy ⊘
- b. Template Method
- c. State
- d. Iterator

The correct answer is: Strategy

Question 59

Incorrect

Mark 0.00 out of 1.00

How do you add a comment in CSS?

- a. # comment
- ⦿ b. C. /* comment */ ⊗
- c. // comment

The correct answer is: # comment

Question 60

Correct

Mark 1.00 out of 1.00

Which property is used to handle content that is too large for its container?

- a. clip
- b. resize
- c. boundary
- d. overflow ✓

The correct answer is: overflow

Question 61

Correct

Mark 1.00 out of 1.00

Which method joins all elements of an array into a string?

- a. merge()
- b. concat()
- c. toString()
- d. join() ✓

The correct answer is: join()

Question 62

Correct

Mark 1.00 out of 1.00

What is the purpose of the <meta name="viewport"> tag?

- a. To control the layout on mobile browsers ✓
- b. To define the character encoding
- c. To improve search engine rankings
- d. To manage browser cookies

The correct answer is: To control the layout on mobile browsers

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Question 63

Correct

Mark 1.00 out of 1.00

Which framework is popular for testing Node.js applications?

- a. Chai
- b. Jest
- c. All of the above ✓
- d. Mocha

The correct answer is: All of the above

Question 64

Correct

Mark 1.00 out of 1.00

Can hooks be called inside loops or conditions?

- a. Yes, if they are wrapped in a try/catch
- b. Only in production mode
- c. Yes, but it is not recommended
- d. No, they must always be called at the top level ✓

The correct answer is: No, they must always be called at the top level

Question 65

Correct

Mark 1.00 out of 1.00

What is "Worker Threads" module used for?

- a. To connect to a printer
- b. To manage the file system
- c. To handle HTTP requests
- d. To run CPU-intensive JavaScript tasks in parallel without blocking the event loop ⊘

The correct answer is: To run CPU-intensive JavaScript tasks in parallel without blocking the event loop

---

Question 66

Correct

Mark 1.00 out of 1.00

Which command is used to start a Node.js REPL environment?

- a. npm start
- b. node ⊘
- c. node start
- d. node repl

The correct answer is: node

Question 67

Correct

Mark 1.00 out of 1.00

What is the significance of the `displayName` property in a component?

- a. It is shown in the browser tab
- b. It sets the component's ID
- c. It is the name of the author
- d. It is used for debugging in React DevTools ⊘

The correct answer is: It is used for debugging in React DevTools

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Question 68

Correct

Mark 1.00 out of 1.00

Which element is used to define the head of an HTML document?

- a. <header>
- b. <meta>
- c. <top>
- d. <head> ⊘

The correct answer is: <head>

Question 69

Correct

Mark 1.00 out of 1.00

Which mechanism allows you to pass data through the component tree without manually passing props?

- a. Refs
- b. Context API ⊘
- c. Fragments
- d. Portals

The correct answer is: Context API

Question 70

Correct

Mark 1.00 out of 1.00

Which property is used to change the transparency of an element?

- a. opacity ✓
- b. filter
- c. visibility
- d. transparency

The correct answer is: opacity

Question 71

Correct

Mark 1.00 out of 1.00

How do you make text italic?

- a. text-style: italic
- b. font-weight: italic
- c. font-style: italic ✓
- d. font-variant: italic

The correct answer is: font-style: italic

Question 72

Correct

Mark 1.00 out of 1.00

What does `path.join('/a', 'b', 'c')` return on a Linux/Mac system?

- a. /abc
- b. /a/b/c ✓
- c. /a,b,c
- d. a-b-c

The correct answer is: /a/b/c

Question 73

Correct

Mark 1.00 out of 1.00

Which attribute is used to specify that an input field should automatically get focus when the page loads?

- a. autofocus ✓
- b. active
- c. selected
- d. focus

The correct answer is: autofocus

Question 74

Correct

Mark 1.00 out of 1.00

What does the selector `div > p` target?

- a. Only `<p>` elements that are direct children of a `<div>` ✓
- b. All `<div>` elements that have a `<p>` child
- c. The first `<p>` element inside every `<div>`
- d. All `<p>` elements inside a `<div>`

The correct answer is: Only `<p>` elements that are direct children of a `<div>`

Question 75

Correct

Mark 1.00 out of 1.00

Which function is used to import a module in CommonJS?

- a. require() ⊘
- b. load()
- c. import()
- d. include()

The correct answer is: require()

Question 76

Correct

Mark 1.00 out of 1.00

Can a stored procedure return a value?

- a. Only if it is a SELECT statement
- b. No
- c. Yes ⊘
- d. Only in PostgreSQL

The correct answer is: Yes

Question 77

Correct

Mark 1.00 out of 1.00

How can you automatically restart a Node.js app when file changes are detected during development?

- a. Use `node --watch` (in modern Node.js versions)
- b. Use `nodemon`
- c. Both A and C are correct ⊘
- d. Use `pm2`

The correct answer is: Both A and C are correct

Question 78

Correct

Mark 1.00 out of 1.00

What is the purpose of the <caption> element in a table?

- a. To provide a title or description for the table ⊘
- b. To define the header row
- c. To define a group of columns
- d. To add a summary for accessibility

The correct answer is: To provide a title or description for the table

---

Question 79

Correct

Mark 1.00 out of 1.00

Which of the following is a DDL command?

- a. CREATE ⊘
- b. INSERT
- c. UPDATE
- d. SELECT

The correct answer is: CREATE

Question 80

Correct

Mark 1.00 out of 1.00

What is the purpose of the `await` keyword?

- ○ a. To pause the entire browser
- ○ b. To loop through a Promise
- ○ c. To create a delay of 1 second
- ◉ d. To make the code wait for a Promise to resolve/reject ✓

The correct answer is: To make the code wait for a Promise to resolve/reject

---

Question 81

Correct

Mark 1.00 out of 1.00

What is the purpose of "React Portals"?

- ○ a. To connect to an external API
- ○ b. To create a 3D effect in the UI
- ○ c. To navigate between pages
- ◉ d. To render children into a DOM node that exists outside the hierarchy of the parent component ✓

The correct answer is: To render children into a DOM node that exists outside the hierarchy of the parent component

---

Question 82

Correct

Mark 1.00 out of 1.00

Which hook is used to share logic between components without changing the hierarchy?

- ○ a. shareHook
- ○ b. useHOC
- ○ c. useLogic
- ◉ d. Custom Hooks (functions starting with "use") ✓

The correct answer is: Custom Hooks (functions starting with "use")

Question 83

Incorrect

Mark 0.00 out of 1.00

How would you select every second `<li>` element in a list?

- ○ a. Both B and C are correct
- ○ b. li:even
- ○ c. li:nth-child(2)
- ◉ d. li:nth-child(2n) ✗

The correct answer is: Both B and C are correct

Question 84

Correct

Mark 1.00 out of 1.00

What is "Strict Mode" in React?

- ○ a. A way to make the app run faster in production
- ○ b. A mode that prevents the use of any external libraries
- ○ c. A security setting for HTTPS
- ◉ d. A tool for highlighting potential problems in an application (runs effects twice in dev) ✓

The correct answer is: A tool for highlighting potential problems in an application (runs effects twice in dev)

Question 85

Correct

Mark 1.00 out of 1.00

How do you start a CSS animation?

- ○ a. @transition
- ○ b. @animate
- ○ c. @motion
- ● d. @keyframes ⊘

The correct answer is: @keyframes

Question 86

Correct

Mark 1.00 out of 1.00

How do you convert a Buffer back to a string?

- ○ a. buffer.data
- ○ b. JSON.stringify(buffer)
- ○ c. buffer.parse()
- ● d. buffer.toString() ⊘

The correct answer is: buffer.toString()

Question 87

Correct

Mark 1.00 out of 1.00

What does the `delete` operator do?

- ○ a. Deletes a variable
- ● b. Removes a property from an object ⊘
- ○ c. Clears the console
- ○ d. Deletes a file

The correct answer is: Removes a property from an object

Question 88

Correct

Mark 1.00 out of 1.00

What is the purpose of the `useDeferredValue` hook?

- ○ a. To create a lazy component
- ○ b. To delay the execution of a function
- ○ c. To load data from a database later
- ● d. To defer updating a part of the UI until more urgent updates are finished ⊘

The correct answer is: To defer updating a part of the UI until more urgent updates are finished

---

Question 89

Correct

Mark 1.00 out of 1.00

Which block is used with `async/await` to handle errors?

- ● a. try/catch ⊘
- ○ b. if/else
- ○ c. open/close
- ○ d. for/in

The correct answer is: try/catch

Question 90

Correct

Mark 1.00 out of 1.00

Which pattern is most suitable for a multi-step checkout process in an e-commerce app?

- a. State or Builder ✓
- b. Prototype
- c. Flyweight
- d. Singleton

The correct answer is: State or Builder

Question 91

Correct

Mark 1.00 out of 1.00

Which attribute is used to combine two or more columns in a table?

- a. colmerge
- b. grid-span
- c. rowspan
- d. colspan ✓

The correct answer is: colspan

Question 92

Correct

Mark 1.00 out of 1.00

Which attribute is used to specify the language of the document?

- a. language
- b. lang ✓
- c. locale
- d. xml:lang

The correct answer is: lang

Question 93

Correct

Mark 1.00 out of 1.00

Which property is used to control the space between the content and the border?

- a. margin
- b. spacing
- c. gutter
- d. padding ✓

The correct answer is: padding

Question 94

Correct

Mark 1.00 out of 1.00

What does the <canvas> element provide?

- a. A container for high-quality images
- b. A layout tool for CSS
- c. A way to draw graphics via scripting (usually JavaScript) ✓
- d. A way to display 3D models without scripts

The correct answer is: A way to draw graphics via scripting (usually JavaScript)

Question 95

Correct

Mark 1.00 out of 1.00

Which JOIN returns records that have matching values in both tables?

- a. LEFT JOIN
- b. FULL JOIN
- c. INNER JOIN ⊘
- d. CROSS JOIN

The correct answer is: INNER JOIN

Question 96

Correct

Mark 1.00 out of 1.00

What does SQL stand for?

- a. Simple Query Language
- b. Strong Question Language
- c. Structured Query Language ⊘
- d. Standard Query List

The correct answer is: Structured Query Language

Question 97

Correct

Mark 1.00 out of 1.00

What is the purpose of the `super()` function in a constructor?

- a. To create a global variable
- b. To call the parent class constructor ⊘
- c. To define a static method
- d. To make a function run faster

The correct answer is: To call the parent class constructor

Question 98

Correct

Mark 1.00 out of 1.00

Which SQL statement is used to update data in a database?

- a. UPDATE ⊘
- b. MODIFY
- c. SAVE
- d. SAVE AS

The correct answer is: UPDATE

Question 99

Correct

Mark 1.00 out of 1.00

Which pattern provides a way to access the elements of an aggregate object sequentially without exposing its underlying representation?

- a. Proxy
- b. Memento
- c. Visitor
- d. Iterator ⊘

The correct answer is: Iterator

Question 100

Correct

Mark 1.00 out of 1.00

What is "Normalization"?

- a. Increasing the number of indexes
- b. The process of organizing data to reduce redundancy and improve integrity ✓
- c. Converting a database to a flat file
- d. Making all table names lowercase

The correct answer is: The process of organizing data to reduce redundancy and improve integrity

---

Question 101

Correct

Mark 1.00 out of 1.00

What is template literal syntax?

- a. `text ${var}` ✓
- b. [text ${var}]
- c. 'text ${var}'
- d. "text ${var}"

The correct answer is: `text ${var}`

Question 102

Correct

Mark 1.00 out of 1.00

What is "Debouncing"?

- a. Limiting the rate at which a function is executed ✓
- b. Removing bugs from code
- c. Deleting old data
- d. Compressing images

The correct answer is: Limiting the rate at which a function is executed

---

Question 103

Correct

Mark 1.00 out of 1.00

What does DDL stand for?

- a. Dynamic Data Language
- b. Data Derivation Language
- c. Data Definition Language ✓
- d. Detailed Data List

The correct answer is: Data Definition Language

Question 104

Correct

Mark 1.00 out of 1.00

What are "props" in React?

- a. Functions that handle API calls
- b. Global variables
- c. Arguments passed into a component from its parent ✓
- d. Internal state of a component

The correct answer is: Arguments passed into a component from its parent

Question 105

Correct

Mark 1.00 out of 1.00

What is the valid way to write a HEX color?

- a. color: #RGB;
- b. color: hex(red);
- c. color: #FF0000; ⊘
- d. color: FF0000;

The correct answer is: color: #FF0000;

Question 106

Correct

Mark 1.00 out of 1.00

Which property aligns flex items along the cross axis?

- a. justify-items
- b. align-items ⊘
- c. align-content
- d. justify-content

The correct answer is: align-items

Question 107

Correct

Mark 1.00 out of 1.00

What does `Object.freeze()` do?

- a. Saves the object to disk
- b. Makes the object blue
- c. Prevents any changes to an object (properties cannot be added, deleted, or changed) ⊘
- d. Stops all animations on the object

The correct answer is: Prevents any changes to an object (properties cannot be added, deleted, or changed)

Question 108

Correct

Mark 1.00 out of 1.00

What happens if an asynchronous error is not caught in Node.js?

- a. The error is sent to the client
- b. Node.js restarts automatically
- c. The process crashes with an `uncaughtException` ⊘
- d. The app ignores it

The correct answer is: The process crashes with an `uncaughtException`

Question 109

Correct

Mark 1.00 out of 1.00

Which statement is used to exit a loop prematurely?

- a. stop
- b. break ⊘
- c. return
- d. exit

The correct answer is: break

Question 110

Correct

Mark 1.00 out of 1.00

Which pattern is commonly used in Redux or Event-driven systems?

- a. Builder
- b. Bridge
- c. Singleton
- d. Observer ✓

The correct answer is: Observer

Question 111

Correct

Mark 1.00 out of 1.00

In a WHERE clause, which operator is used to search for a specified pattern in a column?

- a. CONTAINS
- b. MATCH
- c. LIKE ✓
- d. GET

The correct answer is: LIKE

Question 112

Correct

Mark 1.00 out of 1.00

Which property in `package.json` defines the test command?

- a. debug
- b. run
- c. test ✓
- d. start

The correct answer is: test

Question 113

Correct

Mark 1.00 out of 1.00

What does the `async` keyword do when placed before a function?

- a. It ensures the function always returns a Promise ✓
- b. It hides the function from the global scope
- c. It makes the function run in a separate thread
- d. It stops the function from executing

The correct answer is: It ensures the function always returns a Promise

---

Question 114

Correct

Mark 1.00 out of 1.00

How do you safely store a password?

- a. Encrypted with a key
- b. Hashed with a strong algorithm (like bcrypt) and a salt ✓
- c. Plain text
- d. Base64 encoding

The correct answer is: Hashed with a strong algorithm (like bcrypt) and a salt

Question 115

Correct

Mark 1.00 out of 1.00

What is the difference between `innerHTML` and `textContent`?

- a. `innerHTML` is only for input fields
- b. There is no difference
- c. `textContent` renders HTML tags, `innerHTML` is safer
- d. `innerHTML` renders HTML tags, `textContent` treats everything as plain text ✓

The correct answer is: `innerHTML` renders HTML tags, `textContent` treats everything as plain text

---

Question 116

Correct

Mark 1.00 out of 1.00

In React Testing Library, what is the best way to find an element?

- a. By its CSS selector
- b. By its role and accessible name (e.g., `getByRole`) ✓
- c. By its color
- d. By its index in the DOM

The correct answer is: By its role and accessible name (e.g., `getByRole`)

Question 117

Correct

Mark 1.00 out of 1.00

What is a "Smart Proxy"?

- a. A proxy that uses the `smart` keyword
- b. A proxy used in AI
- c. A proxy that can think
- d. A proxy that performs additional actions when an object is accessed (e.g., counting references) ✓

The correct answer is: A proxy that performs additional actions when an object is accessed (e.g., counting references)

Question 118

Correct

Mark 1.00 out of 1.00

What is the purpose of the <wbr> tag?

- a. To indicate a web resource
- b. To wrap text around an image
- c. To define a word break opportunity ✓
- d. To create a wide border

The correct answer is: To define a word break opportunity

Question 119

Correct

Mark 1.00 out of 1.00

What is "Vertical Scaling"?

- a. Adding more power (CPU/RAM) to an existing server ✓
- b. Making columns taller
- c. Creating a hierarchy of tables
- d. Adding more rows to a table

The correct answer is: Adding more power (CPU/RAM) to an existing server

Question 120

Correct

Mark 1.00 out of 1.00

How do you copy an object (shallow copy) using the spread operator?

- a. const copy = ...original;
- b. const copy = Object.spread(original);
- c. const copy = [...original];
- d. const copy = { ...original }; ✓

The correct answer is: const copy = { ...original };

Question 121

Correct

Mark 1.00 out of 1.00

Which module is used to hash passwords in Node.js?

- a. crypto (core)
- b. All of the above ✓
- c. argon2
- d. bcrypt

The correct answer is: All of the above

Question 122

Correct

Mark 1.00 out of 1.00

Which constraint is used to limit the value range that can be placed in a column?

- a. CHECK ✓
- b. VALIDATE
- c. RANGE
- d. LIMIT

The correct answer is: CHECK

Question 123

Correct

Mark 1.00 out of 1.00

Are props in React mutable (can they be changed by the child)?

- a. Yes, always
- b. Only if they are strings
- c. No, they are read-only ✓
- d. Only in Class components

The correct answer is: No, they are read-only

Question 124

Correct

Mark 1.00 out of 1.00

What is "Environment Variable" storage typically used for?

- a. Storing user profile pictures
- b. Storing source code
- c. Storing CSS files
- d. Storing sensitive data like API keys and DB passwords (using `.env`) ✓

The correct answer is: Storing sensitive data like API keys and DB passwords (using `.env`)

Question 125

Correct

Mark 1.00 out of 1.00

What is "Inversion of Control" (IoC)?

- ○ a. Making all functions private
- ○ b. Using a mouse instead of a keyboard
- ○ c. A way to shut down a server
- ● d. A design principle where the control flow of a program is inverted (given to a framework/container) ✓

The correct answer is: A design principle where the control flow of a program is inverted (given to a framework/container)

Question 126

Correct

Mark 1.00 out of 1.00

What is the default sort order of the ORDER BY clause?

- ○ a. Descending
- ○ b. Random
- ● c. Ascending ✓
- ○ d. Based on Primary Key

The correct answer is: Ascending

Question 127

Correct

Mark 1.00 out of 1.00

Which pattern is used to hide the complexity of a 3rd party API from the rest of your application?

- ○ a. Mediator
- ● b. Facade ✓
- ○ c. Composite
- ○ d. Flyweight

The correct answer is: Facade

Question 128

Correct

Mark 1.00 out of 1.00

What is the purpose of the <details> and <summary> tags?

- ○ a. To define a popup window
- ● b. To create an interactive disclosure widget (accordion) ✓
- ○ c. To list the site map
- ○ d. To create a progress bar

The correct answer is: To create an interactive disclosure widget (accordion)

Question 129

Correct

Mark 1.00 out of 1.00

What is the purpose of the `assert` core module?

- ○ a. To print text to the console
- ○ b. To connect to a database
- ○ c. To manage user permissions
- ● d. To provide a set of assertion functions for testing ✓

The correct answer is: To provide a set of assertion functions for testing

Question 130

Correct

Mark 1.00 out of 1.00

Which hook is provided by `react-redux` to access the state from the store?

- ○ a. useDispatch
- ○ b. useConnect
- ● c. useSelector ✓
- ○ d. useStore

The correct answer is: useSelector

Question 131

Correct

Mark 1.00 out of 1.00

Which hook is used to synchronize a component with an external system (like a browser API)?

- ● a. useSyncExternalStore ✓
- ○ b. useAPI
- ○ c. useExternal
- ○ d. useBrowser

The correct answer is: useSyncExternalStore

Question 132

Correct

Mark 1.00 out of 1.00

Which command is used to remove all records from a table, but keep the table structure?

- ○ a. REMOVE
- ○ b. DROP
- ○ c. DELETE
- ● d. TRUNCATE ✓

The correct answer is: TRUNCATE

Question 133

Correct

Mark 1.00 out of 1.00

Which method is used in Class components to initialize state?

- ○ a. render()
- ● b. constructor() ✓
- ○ c. componentDidMount()
- ○ d. componentWillMount()

The correct answer is: constructor()

Question 134

Correct

Mark 1.00 out of 1.00

Which of these is NOT a primitive data type in JavaScript?

- ● a. Array ✓
- ○ b. Boolean
- ○ c. Number
- ○ d. String

The correct answer is: Array

Question 135

Correct

Mark 1.00 out of 1.00

Which statement is used to give a table or a column a temporary name?

- a. NAME
- b. SET
- c. RENAME
- d. AS (Alias) ✓

The correct answer is: AS (Alias)

Question 136

Correct

Mark 1.00 out of 1.00

What does `__dirname` represent in a Node.js script?

- a. The path to the root of the project
- b. The name of the current file
- c. The path to the node_modules folder
- d. The absolute path to the directory containing the current file ✓

The correct answer is: The absolute path to the directory containing the current file

Question 137

Correct

Mark 1.00 out of 1.00

What is the role of the V8 engine in Node.js?

- a. To handle HTTP requests
- b. To manage the thread pool
- c. To compile and execute JavaScript code ✓
- d. To manage file system access

The correct answer is: To compile and execute JavaScript code

Question 138

Correct

Mark 1.00 out of 1.00

Which SQL statement is used to extract data from a database?

- a. GET
- b. SELECT ✓
- c. EXTRACT
- d. OPEN

The correct answer is: SELECT

Question 139

Correct

Mark 1.00 out of 1.00

What is the purpose of the `os` core module?

- a. To install a new operating system
- b. To manage the browser window
- c. To provide operating system-related utility methods (CPU, memory, uptime) ✓
- d. To format the hard drive

The correct answer is: To provide operating system-related utility methods (CPU, memory, uptime)

Question 140

Correct

Mark 1.00 out of 1.00

"Higher-Order Components" (HOC) in React are an example of which pattern?

- ○ a. Factory
- ◉ b. Decorator ✓
- ○ c. Adapter
- ○ d. Proxy

The correct answer is: Decorator

Question 141

Correct

Mark 1.00 out of 1.00

Which principle does the Strategy pattern help satisfy?

- ◉ a. All of the above ✓
- ○ b. Single Responsibility
- ○ c. Open/Closed (adding new strategies without changing the context)
- ○ d. Liskov Substitution

The correct answer is: All of the above

Question 142

Correct

Mark 1.00 out of 1.00

What does `display: none` do?

- ◉ a. Removes the element from the document flow and hides it ✓
- ○ b. Hides the element from screen readers only
- ○ c. Shrinks the element to 0px width
- ○ d. Makes the element transparent but keeps its space

The correct answer is: Removes the element from the document flow and hides it

---

Question 143

Correct

Mark 1.00 out of 1.00

What is a "Self Join"?

- ○ a. A join that requires no ON condition
- ◉ b. Joining a table with itself ✓
- ○ c. A join performed by the database automatically
- ○ d. Joining a table with a view

The correct answer is: Joining a table with itself

Question 144

Incorrect

Mark 0.00 out of 1.00

Which function returns the lowest value in a column?

- ○ a. LOW()
- ○ b. SMALL()
- ◉ c. MIN() ✗
- ○ d. BOTTOM()

The correct answer is: LOW()

Question 145

Correct

Mark 1.00 out of 1.00

What is the purpose of `React.memo`?

- a. To create a persistent reference to an element
- b. To wrap a functional component and prevent re-renders if props haven't changed ✓
- c. To store data in the browser's memory
- d. To speed up the initial load of the app

The correct answer is: To wrap a functional component and prevent re-renders if props haven't changed

Question 146

Correct

Mark 1.00 out of 1.00

In the Abstract Factory pattern, what is a "Product"?

- a. The object created by the factory ✓
- b. The developer
- c. The source code
- d. The price of the software

The correct answer is: The object created by the factory

Question 147

Correct

Mark 1.00 out of 1.00

What is the purpose of the <audio> tag?

- a. To visualize sound waves
- b. To connect to a radio stream
- c. To record sound from the microphone
- d. To embed sound content like music or podcasts ✓

The correct answer is: To embed sound content like music or podcasts

Question 148

Correct

Mark 1.00 out of 1.00

Which attribute specifies the character encoding for the HTML document?

- a. <html lang="en">
- b. <meta name="encoding">
- c. <meta content="text/html">
- d. <meta charset="UTF-8"> ✓

The correct answer is: <meta charset="UTF-8">

Question 149

Correct

Mark 1.00 out of 1.00

Which clause is used to limit the number of records returned (in MySQL/PostgreSQL)?

- a. LIMIT ✓
- b. TOP
- c. ROWNUM
- d. STOP

The correct answer is: LIMIT

Question 150

Incorrect

Mark 0.00 out of 1.00

What does `event.preventDefault()` do?

- a. Deletes the event listener
- b. Stops the event from bubbling up the DOM ⊗
- c. Stops the default action of an element (like a link redirecting)
- d. Stops other listeners from being called

The correct answer is: Stops the default action of an element (like a link redirecting)

Question 151

Correct

Mark 1.00 out of 1.00

Which property is used to change the text content of an element?

- a. Both A and B ⊘
- b. innerHTML
- c. value
- d. textContent

The correct answer is: Both A and B

Question 152

Correct

Mark 1.00 out of 1.00

Which input type is used to upload one or more files?

- a. type="blob"
- b. type="folder"
- c. type="upload"
- d. type="file" ⊘

The correct answer is: type="file"

Question 153

Correct

Mark 1.00 out of 1.00

Which hook is used to generate a unique ID for accessibility attributes?

- a. useKey
- b. useID ⊘
- c. useUnique
- d. useAria

The correct answer is: useID

Question 154

Correct

Mark 1.00 out of 1.00

What is the difference between a "Simple Factory" and "Factory Method"?

- a. There is no difference
- b. Factory Method is for numbers only
- c. Simple Factory is a single class; Factory Method uses inheritance and subclasses ⊘
- d. Simple Factory is a Structural pattern

The correct answer is: Simple Factory is a single class; Factory Method uses inheritance and subclasses

Question 155

Correct

Mark 1.00 out of 1.00

Which hook is a more powerful alternative to `useState` for complex state logic?

- a. useLogic
- b. useComplex
- c. useReducer ✓
- d. useStore

The correct answer is: useReducer

Question 156

Correct

Mark 1.00 out of 1.00

What is a "Getter" in a class?

- a. A method that gets data from an API
- b. A tool for downloading files
- c. A type of loop
- d. A method that binds a property to a function that will be called when that property is looked up ✓

The correct answer is: A method that binds a property to a function that will be called when that property is looked up

Question 157

Correct

Mark 1.00 out of 1.00

What is the difference between DELETE and TRUNCATE?

- a. TRUNCATE removes only specific rows
- b. DELETE is faster than TRUNCATE
- c. DELETE removes the table structure
- d. DELETE can be rolled back; TRUNCATE usually cannot ✓

The correct answer is: DELETE can be rolled back; TRUNCATE usually cannot

Question 158

Correct

Mark 1.00 out of 1.00

What happens if you omit a dependency from the `useEffect` dependency array?

- a. The effect runs every 1 second
- b. Nothing happens
- c. React throws a syntax error
- d. The effect might use stale values from a previous render ✓

The correct answer is: The effect might use stale values from a previous render

Question 159

Correct

Mark 1.00 out of 1.00

Which command is used to add, delete, or modify columns in an existing table?

- a. CHANGE TABLE
- b. ALTER TABLE ✓
- c. UPDATE TABLE
- d. MODIFY TABLE

The correct answer is: ALTER TABLE

Question 160

Correct

Mark 1.00 out of 1.00

How do you find the highest number in a list?

- a. Math.top()
- b. Math.largest()
- c. Math.max() ⊘
- d. Math.high()

The correct answer is: Math.max()

Question 161

Correct

Mark 1.00 out of 1.00

Which testing library is recommended by the React team for testing components?

- a. Jest and React Testing Library ⊘
- b. Jasmine
- c. Mocha
- d. Selenium

The correct answer is: Jest and React Testing Library

Question 162

Correct

Mark 1.00 out of 1.00

Which keyword is used to return only different (unique) values?

- a. UNIQUE
- b. ONLY
- c. DISTINCT ⊘
- d. DIFFERENT

The correct answer is: DISTINCT

Question 163

Correct

Mark 1.00 out of 1.00

What is the main purpose of React.js?

- a. To handle server-side routing only
- b. To manage databases
- c. To style web pages with CSS
- d. To build user interfaces using components ⊘

The correct answer is: To build user interfaces using components

Question 164

Correct

Mark 1.00 out of 1.00

Which pattern is a "wrapper" that provides the *same* interface?

- a. Bridge
- b. Adapter
- c. Facade
- d. Decorator or Proxy ⊘

The correct answer is: Decorator or Proxy

Question 165

Correct

Mark 1.00 out of 1.00

Can a table have more than one Primary Key?

- ○ a. Yes
- ○ b. Only if the table has no data
- ○ c. Only in MySQL
- ● d. No (only one per table) ⊘

The correct answer is: No (only one per table)

Question 166

Correct

Mark 1.00 out of 1.00

Which event is triggered when a Readable stream has data available to read?

- ○ a. 'read'
- ○ b. 'flow'
- ● c. 'data' ⊘
- ○ d. 'open'

The correct answer is: 'data'

Question 167

Correct

Mark 1.00 out of 1.00

What is the correct way to write an arrow function?

- ● a. () => { } ⊘
- ○ b. () -> { }
- ○ c. function => { }
- ○ d. arrow() { }

The correct answer is: () => { }

Question 168

Correct

Mark 1.00 out of 1.00

How do you convert a JSON string into a JavaScript object?

- ○ a. JSON.convert()
- ● b. JSON.parse() ⊘
- ○ c. JSON.toObject()
- ○ d. JSON.stringify()

The correct answer is: JSON.parse()

Question 169

Correct

Mark 1.00 out of 1.00

Which keyword is used to filter the result set of a query?

- ○ a. FILTER
- ○ b. HAVING
- ● c. WHERE ⊘
- ○ d. IF

The correct answer is: WHERE

Question 170

Correct

Mark 1.00 out of 1.00

What value of `position` keeps an element in the same place even when the page is scrolled?

- a. fixed ✓
- b. relative
- c. absolute
- d. static

The correct answer is: fixed

Question 171

Correct

Mark 1.00 out of 1.00

How do you round the corners of an element?

- a. radius
- b. corner-style
- c. border-round
- d. border-radius ✓

The correct answer is: border-radius

Question 172

Incorrect

Mark 0.00 out of 1.00

What is the correct tag for a line break?

- a. <lb>
- b. <break>
- c. <hr> ✗

Question 173

Correct

Mark 1.00 out of 1.00

What does the selector `input[type="text"]` target?

- a. Inputs with the class "text"
- b. Inputs with the ID "text"
- c. Only text inputs ✓
- d. All input elements

The correct answer is: Only text inputs

Question 174

Correct

Mark 1.00 out of 1.00

What are the two main arguments passed to the `createServer` callback?

- a. request (req) and response (res) ✓
- b. get and post
- c. input and output
- d. query and body

The correct answer is: request (req) and response (res)

Question 175

Correct

Mark 1.00 out of 1.00

Which pattern is used to manage complex "if-else" or "switch" statements related to an object's behavior?

- a. State
- b. Both A and B ✓
- c. Strategy
- d. Command

The correct answer is: Both A and B

Question 176

Correct

Mark 1.00 out of 1.00

Which library does Node.js use to handle asynchronous I/O and the event loop?

- a. V8
- b. Lodash
- c. OpenSSL
- d. Libuv ✓

The correct answer is: Libuv

Question 177

Correct

Mark 1.00 out of 1.00

Where is the correct place to insert JavaScript in HTML?

- a. The <body> section
- b. The <head> section
- c. Both A and B are correct ✓
- d. The <footer> section

The correct answer is: Both A and B are correct

Question 178

Correct

Mark 1.00 out of 1.00

Can you update data through a View?

- a. Only if the view has no WHERE clause
- b. No, never
- c. Yes, in many cases (updatable views) ✓
- d. Only if the view has no joins

The correct answer is: Yes, in many cases (updatable views)

Question 179

Correct

Mark 1.00 out of 1.00

What is the "Callback" pattern?

- a. Passing a function as an argument to be executed after an async operation completes ✓
- b. A way to call a function later
- c. Returning a value from an async function
- d. A loop that runs forever

The correct answer is: Passing a function as an argument to be executed after an async operation completes

Question 180

Correct

Mark 1.00 out of 1.00

Which tag is used to define a container for an external application or interactive content (like a plugin)?

- a. <object>
- b. <embed> ✓
- c. <iframe>
- d. <applet>

The correct answer is: <embed>

Question 181

Correct

Mark 1.00 out of 1.00

What is the purpose of `app.use()`?

- a. To define a specific GET route
- b. To mount middleware functions ✓
- c. To install a new npm package
- d. To start the database

The correct answer is: To mount middleware functions

Question 182

Not answered

Marked out of 1.00

What is a "Dirty Read"?

- a. Reading data with syntax errors
- b. Reading data from a deleted table
- c. Reading data from a file
- d. A transaction reading data that has been modified by another transaction but not yet committed

The correct answer is: A transaction reading data that has been modified by another transaction but not yet committed

Question 183

Correct

Mark 1.00 out of 1.00

Which method allows you to call a function with a specific `this` context and arguments passed as an array?

- a. execute()
- b. bind()
- c. apply() ✓
- d. call()

The correct answer is: apply()

Question 184

Correct

Mark 1.00 out of 1.00

Which tag is used to represent an abbreviation or acronym?

- a. <short>
- b. <acro>
- c. <dfn>
- d. <abbr> ✓

The correct answer is: <abbr>

Question 185

Correct

Mark 1.00 out of 1.00

Which tag is used to define a block of text that is preformatted?

- ○ a. <pre> ✓
- ○ b. <samp>
- ○ c. <text>
- ○ d. <code>

The correct answer is: <pre>

Question 186

Correct

Mark 1.00 out of 1.00

Which element is used to define a caption for a <figure> element?

- ○ a. <details>
- ○ b. <summary>
- ○ c. <caption_figure>
- ○ d. <figcaption> ✓

The correct answer is: <figcaption>

Question 187

Correct

Mark 1.00 out of 1.00

Which CSS unit is relative to the font size of the root element (html)?

- ○ a. em
- ○ b. %
- ○ c. rem ✓
- ○ d. px

The correct answer is: rem

Question 188

Correct

Mark 1.00 out of 1.00

Which command is used to create a new React app with Vite?

- ○ a. npx create-react-app my-app
- ○ b. brew install react
- ○ c. npm create vite@latest ✓
- ○ d. git clone react

The correct answer is: npm create vite@latest

Question 189

Correct

Mark 1.00 out of 1.00

Which pattern allows objects with incompatible interfaces to work together?

- ○ a. Proxy
- ○ b. Flyweight
- ○ c. Adapter ✓
- ○ d. Bridge

The correct answer is: Adapter

Question 190

Correct

Mark 1.00 out of 1.00

How do you define a rest parameter in a function?

- a. function myFunc(rest args)
- b. function myFunc(...args) ⊘
- c. function myFunc(&args)
- d. function myFunc(args...)

The correct answer is: function myFunc(...args)

Question 191

Correct

Mark 1.00 out of 1.00

What is "Concurrent Mode" in React?

- a. A way to use React with Python
- b. A way to run React on multiple servers
- c. A mode that disables hooks
- d. A set of features that help React apps stay responsive by interrupting long-running renders ⊘

The correct answer is: A set of features that help React apps stay responsive by interrupting long-running renders

Question 192

Correct

Mark 1.00 out of 1.00

The "Middleware" pattern in Express.js is a variation of which GoF pattern?

- a. Memento
- b. Singleton
- c. Chain of Responsibility ⊘
- d. Builder

The correct answer is: Chain of Responsibility

Question 193

Correct

Mark 1.00 out of 1.00

Which property is used to define a flex container?

- a. flex-direction: row
- b. display: flex-block
- c. display: flex ⊘
- d. display: grid

The correct answer is: display: flex

Question 194

Correct

Mark 1.00 out of 1.00

Which method is used to listen for an event?

- a. subscribe()
- b. watch()
- c. on() ⊘
- d. listen()

The correct answer is: on()

Question 195

Not answered

Marked out of 1.00

What does the `!important` rule do?

- a. It marks a style as a draft
- b. It sends a message to the browser console
- c. It overrides any other styling for that property, regardless of specificity
- d. It makes the text bold and red

The correct answer is: It overrides any other styling for that property, regardless of specificity

Question 196

Correct

Mark 1.00 out of 1.00

Which tool can you use to inspect the React component hierarchy?

- a. VS Code Debugger
- b. Chrome DevTools (Elements tab)
- c. React Developer Tools (Profiler and Components tabs) ⊘
- d. Postman

The correct answer is: React Developer Tools (Profiler and Components tabs)

Question 197

Correct

Mark 1.00 out of 1.00

How can you prevent "NoSQL Injection" in a Node.js/MongoDB app?

- a. Use a schema-based library like Mongoose
- b. Sanitize user input
- c. All of the above ⊘
- d. Avoid using `$where` in queries

The correct answer is: All of the above

Question 198

Correct

Mark 1.00 out of 1.00

Which method is used to send the final response back to the client in the `http` module?

- a. res.write()
- b. res.send()
- c. res.end() ⊘
- d. res.finish()

The correct answer is: res.end()

Question 199

Correct

Mark 1.00 out of 1.00

What is a "Trigger"?

- a. An error message
- b. A procedure that automatically executes in response to certain events on a table ⊘
- c. A type of index
- d. A button in the database UI

The correct answer is: A procedure that automatically executes in response to certain events on a table

Question 200

Correct

Mark 1.00 out of 1.00

In HTML5, which tag is used to define self-contained content, like a blog post or news article?

- ○ a. <article> ⊘
- ○ b. <section>
- ○ c. <content>
- ○ d. <aside>

The correct answer is: <article>

Question 201

Correct

Mark 1.00 out of 1.00

Why should you avoid using the array index as a "key" prop if the list can change?

- ○ a. Keys must be strings, not numbers
- ○ b. It makes the code harder to read
- ○ c. It can lead to UI bugs and poor performance during re-ordering ⊘
- ○ d. It is deprecated in React 18

The correct answer is: It can lead to UI bugs and poor performance during re-ordering

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Question 202

Correct

Mark 1.00 out of 1.00

What are "Controlled Components" in React?

- ○ a. Input elements whose value is controlled by React state ⊘
- ○ b. Components that cannot be changed by the user
- ○ c. Components that handle their own internal state without props
- ○ d. Components that use an external library like jQuery

The correct answer is: Input elements whose value is controlled by React state

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Question 203

Correct

Mark 1.00 out of 1.00

What does "Atomicity" mean in a transaction?

- ○ a. Multiple users can access it
- ○ b. The transaction is small
- ○ c. The transaction is fast
- ○ d. The transaction is performed entirely or not at all ⊘

The correct answer is: The transaction is performed entirely or not at all

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Question 204

Correct

Mark 1.00 out of 1.00

Which timing function makes an animation start slow, speed up, and then end slow?

- ○ a. ease-in-out ⊘
- ○ b. ease-out
- ○ c. ease-in
- ○ d. linear

The correct answer is: ease-in-out

Question 205

Correct

Mark 1.00 out of 1.00

Which hook is used to handle transitions between different states of a UI?

- a. useMove
- b. useChange
- c. useUI
- d. useTransition ⊘

The correct answer is: useTransition

Question 206

Correct

Mark 1.00 out of 1.00

Which element is used to define a table row?

- a. <tr> ⊘
- b. <th>
- c. <td>
- d. <tr_row>

The correct answer is: <tr>

Question 207

Correct

Mark 1.00 out of 1.00

How can you change the CSS style of an element in JS?

- a. element.set("color", "red")
- b. element.class = "red"
- c. element.css("color", "red")
- d. element.style.color = "red" ⊘

The correct answer is: element.style.color = "red"

Question 208

Correct

Mark 1.00 out of 1.00

How do you get an array of an object's keys?

- a. Object.get(obj)
- b. keys(obj)
- c. Object.keys(obj) ⊘
- d. obj.getKeys()

The correct answer is: Object.keys(obj)