

Q1. Which HTML tag is used for self-contained content?

- A. <div>
- B. <section>
- C. <article>
- D. <aside>

Answer: C

Q2. Which attribute improves accessibility for images?

- A. src
- B. title
- C. alt
- D. aria

Answer: C

Q3. Which CSS property controls stacking order?

- A. position
- B. float
- C. z-index
- D. display

Answer: C

Q4. Which CSS unit is relative to viewport height?

- A. em
- B. %
- C. vh
- D. rem

Answer: C

Q5. Bootstrap grid system is divided into how many columns?

- A. 10
- B. 12
- C. 14
- D. 16

Answer: B

Q6. Which Bootstrap class hides an element but keeps its space?

- A. d-none
- B. invisible
- C. hidden
- D. opacity-0

Answer: B

Q7. Which CSS property enables Flexbox?

- A. position:flex
- B. display:flex
- C. flex:display
- D. layout:flex

Answer: B

Q8. Which HTML tag defines navigation links?

- A. <menu>
- B. <nav>
- C. <ul>
- D. <header>

Answer: B

Q9. What does .container-fluid do in Bootstrap?

- A. Fixed width
- B. Full width container
- C. Auto height
- D. Margin auto

Answer: B

Q10. Which CSS feature enables responsive design?

- A. Float
- B. Media queries
- C. Overflow
- D. Z-index

Answer: B

Q11. What is JSX?

- A. Java Syntax XML
- B. JavaScript XML
- C. JSON XML
- D. JS Extra

Answer: B

Q12. Which hook is used to manage state in functional components?

- A. useEffect
- B. useContext
- C. useState
- D. useRef

Answer: C

Q13. Virtual DOM improves application?

- A. Security
- B. Performance
- C. SEO
- D. Styling

Answer: B

Q14. Props in React are?

- A. Mutable
- B. Read-only
- C. Stateful
- D. Optional

Answer: B

Q15. Which hook replaces componentDidMount?

- A. useMemo
- B. useEffect
- C. useRef
- D. useCallback

Answer: B

Q16. Key prop is mainly used for?

- A. Styling
- B. Routing
- C. List rendering
- D. State update

Answer: C

Q17. Controlled components rely on?

- A. DOM

- B. State
- C. Props
- D. Refs

Answer: B

Q18. Which hook avoids unnecessary recalculation?

- A. useEffect
- B. useMemo
- C. useRef
- D. useReducer

Answer: B

Q19. Lifting state up means?

- A. Removing state
- B. Sharing state
- C. Resetting state
- D. Copying props

Answer: B

Q20. Which hook accesses DOM directly?

- A. useRef
- B. useEffect
- C. useMemo
- D. useState

Answer: A

Q21. React Fragment is used to?

- A. Add styles
- B. Wrap elements
- C. Store state
- D. Handle errors

Answer: B

Q22. Which hook manages complex state logic?

- A. useState
- B. useReducer
- C. useMemo
- D. useRef

Answer: B

Q23. Context API helps avoid?

- A. Hooks
- B. Props drilling
- C. Re-render
- D. State

Answer: B

Q24. What causes component re-render?

- A. useRef
- B. State update
- C. useMemo
- D. useCallback

Answer: B

Q25. useCallback optimizes?

- A. API calls
- B. Functions

- C. DOM
  - D. State
- Answer: B

Q26. What is reconciliation in React?

- A. Rendering JSX
- B. DOM diffing
- C. State update
- D. API handling

Answer: B

Q27. React.StrictMode helps with?

- A. Performance
- B. Debug warnings
- C. Styling
- D. Production build

Answer: B

Q28. Hooks must be called?

- A. Conditionally
- B. Inside loops
- C. At top level
- D. Inside callbacks

Answer: C

Q29. Which hook runs only once?

- A. useEffect([])
- B. useMemo
- C. useRef
- D. useState

Answer: A

Q30. React.memo is used to?

- A. Memoize values
- B. Prevent re-render
- C. Handle state
- D. Fetch data

Answer: B

Q31. Node.js is a?

- A. Framework
- B. Library
- C. Runtime
- D. Language

Answer: C

Q32. Express is mainly used to build?

- A. UI
- B. Database
- C. Server
- D. Compiler

Answer: C

Q33. app.use() is used for?

- A. Routing
- B. Middleware
- C. Controller

D. Response

Answer: B

Q34. Middleware executes?

- A. After response
- B. Before request
- C. Between req & res
- D. In database

Answer: C

Q35. Axios is used for?

- A. Routing
- B. HTTP requests
- C. Authentication
- D. Validation

Answer: B

Q36. CORS stands for?

- A. Cross-Origin Resource Sharing
- B. Core Object Rule System
- C. Client Origin Sync
- D. Cross Object Routing

Answer: A

Q37. MongoDB is a?

- A. SQL DB
- B. NoSQL DB
- C. Graph DB
- D. File DB

Answer: B

Q38. MongoDB stores data as?

- A. Rows
- B. Tables
- C. Documents
- D. Sheets

Answer: C

Q39. Mongoose is a?

- A. Database
- B. ORM
- C. ODM
- D. Server

Answer: C

Q40. mongoose.connect() is used for?

- A. Schema creation
- B. Routing
- C. DB connection
- D. CRUD

Answer: C

Q41. mongosh is a?

- A. GUI
- B. Shell
- C. API
- D. Driver

Answer: B

Q42. CRUD stands for?

- A. Create Read Update Delete
- B. Copy Remove Update Delete
- C. Code Run Update Delete
- D. Create Remove Use Delete

Answer: A

Q43. Which HTTP method creates data?

- A. GET
- B. POST
- C. PUT
- D. DELETE

Answer: B

Q44. Which HTTP method deletes data?

- A. GET
- B. POST
- C. PUT
- D. DELETE

Answer: D

Q45. req.params gets values from?

- A. Body
- B. URL
- C. Header
- D. Query

Answer: B

Q46. req.body requires which middleware?

- A. cors
- B. express.json()
- C. router
- D. axios

Answer: B

Q47. Which HTTP status code means success for POST?

- A. 200
- B. 201
- C. 404
- D. 500

Answer: B

Q48. Express server starts using?

- A. app.start()
- B. app.listen()
- C. server.run()
- D. node.start()

Answer: B

Q49. MongoDB default primary key is?

- A. id
- B. key
- C. \_id
- D. index

Answer: C

Q50. `populate()` in Mongoose is used for?

- A. Validation
- B. Relations
- C. Indexing
- D. Authentication

Answer: B

Q51. Which runs first in React?

- A. useEffect
- B. JSX render
- C. State update
- D. Cleanup

Answer: B

Q52. What happens if res is never sent in Express?

- A. App crashes
- B. Client waits
- C. Auto response
- D. Retry

Answer: B

Q53. What causes infinite loop in React?

- A. useEffect without dependency array
- B. props
- C. JSX
- D. CSS

Answer: A

Q54. Which HTTP method should not have a body?

- A. POST
- B. PUT
- C. GET
- D. PATCH

Answer: C

Q55. Axios returns?

- A. Object
- B. Callback
- C. Promise
- D. String

Answer: C

Q56. Which hook does not trigger re-render?

- A. useState
- B. useReducer
- C. useRef
- D. props

Answer: C

Q57. MongoDB relations are handled by?

- A. Joins
- B. populate()
- C. Foreign keys
- D. Tables

Answer: B

Q58. Event loop belongs to?

- A. Browser
- B. React
- C. Node.js
- D. MongoDB

Answer: C

Q59. Which is immutable in React?

- A. State
- B. Props
- C. DOM
- D. Refs

Answer: B

Q60. Which has faster lookup?

- A. Array
- B. Object
- C. Map
- D. List

Answer: C

Q61. Which Git command initializes a repository?

- A. git start
- B. git init
- C. git create
- D. git begin

Answer: B

Q62. Which Git command stages files?

- A. git push
- B. git commit
- C. git add
- D. git merge

Answer: C

Q63. Which Git command saves changes locally?

- A. git push
- B. git commit
- C. git clone
- D. git pull

Answer: B

Q64. If next() is not called in middleware?

- A. Skips middleware
- B. Auto response
- C. Request hangs
- D. Server stops

Answer: C

Q65. Which causes memory leak in React?

- A. Missing keys
- B. Uncleaned useEffect
- C. Props drilling
- D. Context

Answer: B

Q66. Best way to handle async errors in Express?

- A. console.log
- B. try/catch + middleware
- C. if/else
- D. setTimeout

Answer: B

Q67. Which HTTP status means Not Found?

- A. 200

B. 401

C. 403

D. 404

Answer: D

Q68. Which avoids prop drilling?

- A. Redux
- B. Context API
- C. Hooks
- D. Memo

Answer: B

Q69. Which breaks immutability?

- A. map()
- B. filter()
- C. push()
- D. spread

Answer: C

Q70. useEffect cleanup runs when?

- A. On mount
- B. On every render
- C. On unmount or before next run
- D. On state init

Answer: C

Q71. Which Git command copies a remote repository locally?

- A. git pull
- B. git clone
- C. git fetch
- D. git init

Answer: B

Q72. Which React hook is best for performance optimization of functions?

- A. useEffect
- B. useMemo
- C. useCallback
- D. useRef

Answer: C

Q73. What happens if dependency array is empty in useEffect?

- A. Runs every render
- B. Runs once
- C. Never runs
- D. Runs twice always

Answer: B

Q74. Which MongoDB command shows databases?

- A. show dbs
- B. list dbs
- C. db.show()
- D. mongo list

Answer: A

Q75. Which Express method sends JSON response?

- A. res.send()
- B. res.end()

- C. res.json()
  - D. res.write()
- Answer: C

Q76. Which HTTP status code means Unauthorized?

- A. 401
- B. 403
- C. 404
- D. 500

Answer: A

Q77. Which React feature avoids unnecessary re-render of child components?

- A. Context
- B. React.memo
- C. useState
- D. useEffect

Answer: B

Q78. Which MongoDB method updates a single document?

- A. update()
- B. updateMany()
- C. updateOne()
- D. replaceAll()

Answer: C

Q79. Which Node.js module handles file system operations?

- A. http
- B. path
- C. fs
- D. os

Answer: C

Q80. Which Git command shows commit history?

- A. git log
- B. git status
- C. git diff
- D. git branch

Answer: A

Q81. Which hook shares logic between components?

- A. Custom Hook
- B. useMemo
- C. useRef
- D. Context

Answer: A

Q82. Which Express feature groups routes?

- A. app.use()
- B. Router()
- C. middleware
- D. controller

Answer: B

Q83. Which MongoDB field is auto-generated?

- A. id
- B. key
- C. \_id

D. index

Answer: C

Q84. Which React hook manages side effects?

A. useState

B. useMemo

C. useEffect

D. useRef

Answer: C

Q85. Which command removes node\_modules safely?

A. rm -rf node\_modules

B. delete node\_modules

C. npm clean

D. npm reset

Answer: A

Q86. Which HTTP method partially updates data?

A. PUT

B. POST

C. PATCH

D. GET

Answer: C

Q87. Which MongoDB operator is used for comparison?

A. \$set

B. \$gt

C. \$push

D. \$inc

Answer: B

Q88. Which Node.js feature enables non-blocking I/O?

A. Multi-threading

B. Event loop

C. Clustering

D. Worker threads

Answer: B

Q89. Which React hook runs before component unmounts?

A. useMemo

B. useRef

C. useEffect cleanup

D. useState

Answer: C

Q90. Which Git command discards local changes?

A. git reset --hard

B. git revert

C. git pull

D. git merge

Answer: A

Q91. Which Express middleware handles errors globally?

A. Router

B. Controller

C. Error-handling middleware

D. Service

Answer: C

Q92. Which React hook does NOT cause re-render?

- A. useState
- B. useReducer
- C. useRef
- D. props

Answer: C

Q93. Which MongoDB operation is atomic?

- A. find()
- B. updateOne()
- C. aggregate()
- D. lookup

Answer: B

Q94. What happens if CORS is not enabled?

- A. Server crash
- B. Browser blocks request
- C. DB fails
- D. Axios error only

Answer: B

Q95. Which Git command undoes a commit safely?

- A. git reset
- B. git revert
- C. git checkout
- D. git stash

Answer: B

Q96. useEffect cleanup runs when?

- A. On mount
- B. Every render
- C. Before next effect / unmount
- D. State init

Answer: C

Q97. Best HTTP status for resource creation?

- A. 200
- B. 201
- C. 204
- D. 202

Answer: B

Q98. Route parameter is accessed via?

- A. req.query
- B. req.body
- C. req.params
- D. req.headers

Answer: C

Q99. Which causes memory leak in React?

- A. Missing keys
- B. Uncleared useEffect
- C. Props drilling
- D. Context

Answer: B

Q100. Best async error handling in Express?

- A. console.log
- B. try/catch + error middleware
- C. if/else
- D. setTimeout

Answer: B