





1. **Aman is building an e-commerce application where users can search for products. He wants to return only name and price fields from the products collection. Which query should he use?**
 - A) `db.products.find({}, { name: 1, price: 1 })`
 - B) `db.products.find({}, { name: 1, price: 1, _id: 0 })` 
 - C) `db.products.find({ name, price })`
 - D) `db.products.select({ name: 1, price: 1 })`
2. **Priya is implementing authentication in her Express app using JWT. Where should she store the JWT token for better security?**
 - A) LocalStorage
 - B) SessionStorage
 - C) HTTP-Only Cookies 
 - D) Store it inside Redux state
3. **Ravi is developing a blog application. He needs to allow users to create new posts using Express. Which HTTP method should he use?**
 - A) GET
 - B) POST 
 - C) PUT
 - D) DELETE
4. **Sneha is debugging an Express API. She wants to log requests including method and URL. Which middleware should she use?**
 - A) `app.use(bodyParser.json())`
 - B) `app.use(morgan('combined'))` 
 - C) `app.use(express.json())`
 - D) `app.use(helmet())`
5. **Vikram is building a chat application using WebSockets in Node.js. Which package should he use for easy WebSocket**

handling?

- A) Express
- B) Socket.IO ☒
- C) Axios
- D) Nodemailer

6. Arjun is developing a REST API with Express. He needs to validate user input before processing. Which library can help with validation?

- A) Express-validator ☒
- B) Winston
- C) Nodemailer
- D) JWT

7. Rohan is working with MongoDB and wants to store an array of tags inside a document. Which datatype should he use?

- A) Object
- B) String
- C) Array ☒
- D) Number

8. Meera is implementing pagination in her Node.js API. Which two MongoDB functions will help her achieve this?


- A) limit() and skip() ☒
- B) find() and sort()
- C) filter() and map()
- D) push() and pop()

9. Akash wants to deploy his React application but needs to serve static files using Express. Which Express middleware should he use?


- A) app.use(express.static('public')) ☒
- B) app.use(express.staticFiles('public'))

- C) `app.use(serveStatic('public'))`
 - D) `app.use(bodyParser.json())`
10. **Nidhi is implementing authentication and wants to encrypt user passwords before saving them to MongoDB. Which library should she use?**
- A) JWT
 - B) Bcrypt ☒
 - C) Nodemailer
 - D) Axios
11. **Sandeep is developing a React app and needs to store global state. Which library is commonly used for this purpose?**
- A) Axios
 - B) Redux ☒
 - C) Nodemailer
 - D) Helmet
12. **Pooja is implementing routing in her React application. Which package should she use?**
- A) `react-router` ☒
 - B) `express-router`
 - C) `react-navigation`
 - D) `react-middleware`
13. **Ramesh wants to prevent Cross-Site Scripting (XSS) attacks in his Express app. Which middleware should he use?**
- A) Morgan
 - B) Helmet ☒
 - C) Winston
 - D) `Express-validator`
14. **Sahil is using React hooks and wants to fetch data from an API only once when the component mounts. What**


should he do?

- A) Use useEffect with an empty dependency array 
- B) Call the API inside useState
- C) Fetch data inside componentDidMount
- D) Use setTimeout to delay the API call


15. Varun is working on a MERN project and wants to ensure that API requests include authentication headers. Where should he add the token in a frontend API call?

- A) In the request body
- B) In localStorage
- C) In the Authorization header 
- D) Inside a hidden input field

16. Manoj is using MongoDB with Mongoose and wants to create a unique index on the email field. How should he define it in the schema?

- A) { email: String, unique: true }
- B) { email: { type: String, unique: true } } 
- C) { email: String, index: unique }
- D) { email: String, required: true }

17. Suman is designing a user authentication system and wants to store passwords securely. What is the best approach?

- A) Store plaintext passwords in MongoDB
- B) Hash passwords using bcrypt before saving 
- C) Encrypt passwords with JWT
- D) Store passwords in localStorage

18. Aditi is optimizing her MongoDB queries. What should she use to analyze query performance?

- A) explain() 
- B) findOne()

C) aggregate()

D) queryPerformance()

19. **Raj is working on an Express API. How can he handle errors globally in Express?**

A) By wrapping each route with try-catch

B) Using next(error) inside middleware ☒

C) Logging errors with console.log()

D) Returning 500 status codes manually

20. **Neha is working on a React project where she needs to make API calls from multiple components. Where should she define the API functions?**

A) Inside each component

B) Inside a custom hook ☒

C) Inside App.js

D) Inside the Redux store

21. **Yash is setting up a React project using Vite instead of Create React App. What is the main advantage of Vite?**

A) Faster build times ☒

B) Built-in Redux

C) Automatic authentication

D) Works only with TypeScript

22. **Simran wants to store user authentication tokens securely in a React app. What is the best practice?**

A) Store in localStorage

B) Store in sessionStorage

C) Store in HTTP-only cookies ☒

D) Store in Redux state

23. **Ankur is working on a Node.js backend and needs to schedule a task to run every day at midnight. Which package should he use?**

A) cron ☒

- B) schedule.js
- C) moment.js
- D) node-time

24. **Isha is implementing file uploads in an Express application. Which middleware should she use?**

- A) multer ☒
- B) body-parser
- C) express-file
- D) fs

25. **Karthik is deploying his MERN stack app and wants to serve both frontend and backend on the same domain. What should he do?**

- A) Deploy backend separately on a different domain
- B) Use a reverse proxy like Nginx ☒
- C) Deploy frontend and backend on different servers
- D) Use React Native instead

26. **Swati is setting up a React project. Which command should she use to create a new project with Vite?**

- A) npx create-react-app my-app
- B) npm create vite@latest my-app ☒
- C) npm init react-app
- D) yarn create react-app

27. **Rajat is using fetch in React but wants a simpler way to handle API calls. What library should he use?**

- A) Axios ☒
- B) Express
- C) Redux Toolkit
- D) Mongoose

28. **Pallavi is creating a React component and wants to ensure it re-renders only when needed. What should she use?**

- A) React.memo() ✓
- B) React.useEffect()
- C) React.createContext()
- D) React.useState()

29. **Nikhil is testing his Express API using Postman. Which HTTP method should he use to update user data?**

- A) GET
- B) POST
- C) PUT ✓
- D) DELETE

30. **Vikas needs to add a login feature to his React app. What should he use to manage authentication?**

- A) Firebase
- B) JWT ✓
- C) Redux
- D) Express

31. **Aayushi is developing a React app and wants to handle side effects like API calls. Which hook should she use?**

- A) useState
- B) useEffect ✓
- C) useContext
- D) useReducer

32. **Rahul is building a Node.js REST API and wants to format logs properly. What should he use?**

- A) console.log()
- B) Winston ✓
- C) Morgan
- D) Helmet

33. **Ishaan wants to create a protected route in React. What should he check before rendering the component?**

- A) Local storage for the JWT token

B) User authentication state ☒

C) Browser cookies

D) Redux store

34. **Sakshi is deploying her MERN app on Heroku. How can she store environment variables securely?**

A) Hardcode them in the code

B) Use .env files and add them to .gitignore ☒

C) Store them in the frontend

D) Use Redux for storing them

35. **Gaurav needs to build a search feature in MongoDB. Which operator should he use?**

A) \$find

B) \$search ☒

C) \$match

D) \$regex

36. **Ananya is building a social media app where users can like posts. Which MongoDB update operator should she use to increment the like count?**

A) \$set

B) \$inc ☒

C) \$push

D) \$addToSet

37. **Soham wants to filter documents in MongoDB where status is either "active" or "pending". Which operator should he use?**

A) \$or ☒

B) \$and

C) \$match

D) \$eq

38. **Harsh is working on a MERN project and needs to securely store environment variables. Where should he**

define them in a Node.js project?

- A) In a .env file ☒
- B) Inside package.json
- C) In a React component
- D) Hardcoded inside the API

39. Ishita is designing an API rate limiter for her Express app. Which package should she use?

- A) express-rate-limit ☒
- B) helmet
- C) cors
- D) morgan

40. Rajesh is trying to fix a CORS error in his Express API. What middleware should he use?

- A) body-parser
- B) cors ☒
- C) express-session
- D) helmet






41. Tanya is handling form submissions in React and wants to prevent the page from refreshing. What should she do?

- A) Use window.stop()
- B) Call event.preventDefault() ☒
- C) Use a <button type="submit">
- D) Use console.log(event)

42. Aditya wants to fetch data in a React component only once when the component mounts. How should he do this?

- A) Use useEffect with an empty dependency array ☒
- B) Use useState
- C) Call API inside render()
- D) Fetch data inside componentDidUpdate()

43. **Meenal needs to store a user session in Express. Which middleware should she use?**
- A) express-session ☒
 - B) jsonwebtoken
 - C) helmet
 - D) nodemailer
44. **Aryan wants to update multiple fields in a MongoDB document at once. Which operator should he use?**
- A) \$set ☒
 - B) \$update
 - C) \$modify
 - D) \$change
45. **Neeraj is working with JWT authentication. Where should he verify the token in an Express API?**
- A) In the frontend
 - B) In middleware ☒
 - C) In the React component
 - D) Inside the res.send() function
46. **Pallavi is using Mongoose and wants to define a schema with an array of embedded objects. How should she define it?**
- A) { comments: [{ type: Object }] }
 - B) { comments: [{ text: String, author: String }] } ☒
 - C) { comments: { text: String, author: String } }
 - D) { comments: new Array() }
47. **Siddharth is using React and wants to pass data from a parent component to a child. What should he use?**
- A) useState
 - B) props ☒
 - C) useEffect
 - D) useRef

48. **Anika is developing a to-do list app with React and wants to maintain an array of tasks. Which hook should she use?**
- A) useEffect
 - B) useState 
 - C) useReducer
 - D) useMemo
49. **Aayush is working on an Express API and wants to send a JSON response. What method should he use?**
- A) res.text()
 - B) res.json() 
 - C) res.html()
 - D) res.sendFile()
50. **Isha is using MongoDB and needs to remove a document by its _id. What function should she use?**
- A) deleteOne({ _id: someId }) 
 - B) removeOne({ _id: someId })
 - C) erase({ _id: someId })
 - D) drop({ _id: someId })
51. **Jay is working with React forms and needs to handle user input changes dynamically. What should he use?**
- A) onSubmit
 - B) onClick
 - C) onChange 
 - D) onHover
52. **Sara needs to execute a function only after a component re-renders due to state changes. Which hook should she use?**
- A) useEffect 
 - B) useRef

- C) useMemo
- D) useCallback

53. Nitin wants to store a list of items in Redux. Where should he define the initial state?

- A) In the Redux reducer ☒
- B) In the React component
- C) In a useEffect function
- D) In localStorage

54. Deepika is using React and wants to conditionally render a component. What should she use?

- A) { isVisible && <Component /> } ☒
- B) { showComponent ? <Component /> }
- C) { <Component /> : null }
- D) { <Component /> && showComponent }

55. Manav is testing his Express API but is getting a 404 error for all requests. What might be the issue?

- A) He forgot to define routes
- B) Middleware order is incorrect
- C) The server is not listening on the correct port
- D) All of the above ☒

56. Shruti wants to create a search bar in React where results update as the user types. What should she use?

- A) useState ☒
- B) useEffect
- C) useMemo
- D) useRef

57. Aakash needs to fetch user data when a component loads and also refresh it when a button is clicked. What should he do?

- A) Use useEffect with no dependencies
- B) Use useEffect with dependencies ☒

- C) Call the API inside useState
 - D) Call API inside render()
58. **Komal is deploying her React app on Netlify but gets a blank page after refreshing. What might be missing?**
- A) index.html
 - B) Proper routing fallback ☒
 - C) A server restart
 - D) A missing package.json
59. **Abhishek is working with Express and wants to set a custom error handler. What should he do?**
- A) Define `app.use((err, req, res, next) => {...})` ☒
 - B) Use `throw new Error()` in routes
 - C) Add error messages in `console.log()`
 - D) Return 500 status in every API
60. **Sakshi is working on a MERN stack project and wants to improve MongoDB query performance. What should she do?**
- A) Use indexes ☒
 - B) Store all data in a single document
 - C) Use Redis instead of MongoDB
 - D) Reduce collection size
61. **Rohan is optimizing his React app and wants to memoize an expensive calculation. What should he use?**
- A) `useEffect`
 - B) `useMemo` ☒
 - C) `useState`
 - D) `useRef`
62. **Megha wants to add a middleware in Express that logs requests before processing them. What should she use?**
- A) `morgan` ☒
 - B) `helmet`

C) cors

D) express-session

63. **Sagar is using Redux and needs to dispatch an action.**

What function should he use?

A) store.dispatch() ☒

B) store.send()

C) store.invoke()

D) store.call()

64. **Neel is handling a large dataset in MongoDB and wants to paginate results efficiently. What method should he use?**

A) find().skip().limit() ☒

B) find().sort().limit()

C) find().slice().limit()

D) find().fetchMore()

65. **Anjali is working on an Express API that requires user authentication. Where should she verify the JWT token?**

A) In the frontend

B) In Express middleware ☒

C) In the database

D) Inside console.log()

66. **Arjun is debugging a React app and wants to check the state changes in real-time. What tool should he use?**

A) Chrome DevTools

B) React Developer Tools ☒

C) Redux Logger

D) Postman

67. **Ritika is working with MongoDB and wants to find all users whose name starts with "A". What query should she use?**

A) { name: /^A/ } ☒

B) { name: { \$like: 'A%' } }

C) { name: 'A*' }

D) { name: { \$match: '^A' } }

68. Yash is deploying a MERN app on AWS EC2 and needs to keep his Node.js server running after closing the terminal. What should he use?

A) pm2 ☒

B) forever.js

C) nodemon

D) screen

69. Pooja wants to pass data from a child component to a parent in React. What should she use?

A) Props

B) Callback functions ☒

C) Context API

D) Redux

70. Aman wants to secure sensitive API routes in Express by restricting access to logged-in users. What should he implement?

A) JWT authentication ☒

B) Redux

C) React Context

D) Express Router

71. Nisha is implementing a protected route in React using React Router. What should she check before rendering the component?

A) If the user is authenticated ☒

B) If localStorage has a token

C) If the Redux store is updated

D) If the API is responding

72. Irfan is working with Mongoose and needs to populate related data from another collection. What method

should he use?

- A) populate() ✓
- B) extend()
- C) merge()
- D) connect()

73. Sameer wants to run a function only when the dependency array changes in useEffect. What should he do?

- A) Pass an empty array []
- B) Pass the specific dependencies ✓
- C) Leave the array empty
- D) Call the function inside useState

74. Varun is using MongoDB and wants to delete multiple records at once. What method should he use?

- A) deleteMany() ✓
- B) removeAll()
- C) dropMany()
- D) eraseAll()

75. Nidhi wants to implement infinite scrolling in her React app. What should she listen for?

- A) onScroll event ✓
- B) onClick event
- C) onResize event
- D) onChange event

76. Rakesh is using bcrypt to hash passwords in Node.js. What should he do before storing the hashed password?

- A) Append a random string
- B) Use bcrypt.hash() with a salt ✓
- C) Store it as plaintext
- D) Encrypt it with JWT

77. **Preeti is handling a file upload in Express and wants to save the uploaded file on the server. Which middleware should she use?**
- A) multer ☒
 - B) body-parser
 - C) cookie-parser
 - D) helmet
78. **Aakash is using React and needs to store a reference to a DOM element. Which hook should he use?**
- A) useState
 - B) useRef ☒
 - C) useMemo
 - D) useEffect
79. **Alok wants to validate user input before saving it to MongoDB. Which package should he use?**
- A) express-validator ☒
 - B) helmet
 - C) morgan
 - D) cors
80. **Tina is trying to access a React state variable inside a function but the value is outdated. What could be the issue?**
- A) She is using useEffect incorrectly
 - B) She should use useRef instead
 - C) The function is using a stale closure ☒
 - D) The variable is inside a class component
81. **Naveen is fetching data from an API in React and wants to cancel the request if the component unmounts. What should he use?**
- A) AbortController ☒
 - B) setTimeout

C) async/await

D) Promise.all

82. **Shweta is working on an Express API and wants to implement logging. What should she use?**

A) Winston ☒

B) Morgan

C) Helmet

D) Rate-limit

83. **Sanjay is using useContext in React to manage global state. What must he wrap around his components?**

A) A Provider ☒

B) A Reducer

C) A Hook

D) A Callback

84. **Ramesh wants to return only specific fields from a MongoDB query. What should he use?**

A) .select() ☒

B) .project()

C) .filter()

D) .map()

85. **Priya is optimizing performance in React and wants to cache a function so it's not recreated on every render. What should she use?**

A) useMemo

B) useCallback ☒

C) useRef

D) useState

86. **Suraj is debugging a React app and needs to track component re-renders. What tool should he use?**

A) React Profiler ☒

B) Chrome Console

C) Redux Logger

D) Postman

87. Kavya wants to lazy load a component in React. What function should she use?

A) React.lazy() ☒

B) useLazy()

C) useEffect()

D) React.defer()

88. Rahul wants to deploy his MERN app on Vercel. What should he configure for the API routes?

A) Serverless functions ☒

B) React Router

C) Webpack

D) Nodemon

89. Amit is implementing an API request in React and wants to handle errors gracefully. What should he use?

A) try-catch ☒

B) setTimeout

C) Promise.reject()

D) alert()

90. Deepak wants to optimize a React list by preventing unnecessary re-renders. What should he use?

A) React.memo() ☒

B) React.useRef()

C) React.useEffect()

D) React.lazy()

91. Vikram is implementing authentication in his MERN app. He wants to store the JWT token securely on the client side. Where should he store it?

A) localStorage

B) sessionStorage

C) HTTP-only cookies ☒

D) Redux store

92. **Sneha is working on an Express API that handles large file uploads. What should she implement to prevent memory overflow?**

A) Increase server RAM

B) Stream the file instead of storing it in memory ☒

C) Store files in a database

D) Block large uploads

93. **Aryan is deploying his React app on GitHub Pages but sees a blank screen when navigating directly to a route. What should he do?**

A) Enable HashRouter instead of BrowserRouter ☒

B) Restart the server

C) Reinstall dependencies

D) Use absolute paths

94. **Monika wants to improve the security of her Express API by hiding server details in responses. What middleware should she use?**

A) helmet ☒

B) morgan

C) express-session

D) rate-limit

95. **Karan is debugging a MongoDB query that is running slow. What command should he use to analyze its execution?**

A) db.collection.analyze()

B) db.collection.inspect()

C) db.collection.explain() ☒

D) db.collection.debug()

96. **Pooja is using React Query to manage API requests in her app. What is one key advantage of React Query over useEffect for fetching data?**
- A) Built-in caching ☒
 - B) Reduces code size
 - C) Uses fewer dependencies
 - D) No need for state management
97. **Ajay is using WebSockets in a MERN project for real-time chat. What library should he use in his Node.js server?**
- A) socket.io ☒
 - B) express-ws
 - C) ws-client
 - D) http
98. **Simran is using Redux Toolkit and wants to perform an asynchronous API call inside Redux. What should she use?**
- A) createAsyncThunk ☒
 - B) useEffect
 - C) useState
 - D) fetchData()
99. **Harshit wants to implement a worker thread in Node.js for CPU-intensive tasks. What module should he use?**
- A) worker_threads ☒
 - B) child_process
 - C) cluster
 - D) async
100. **Nandini is working on a high-traffic MERN application. What strategy should she use to handle concurrent requests efficiently?**
- A) Use load balancing with multiple Node.js instances ☒
 - B) Increase database size

C) Add more routes in Express

D) Store data in JSON files