

Student Result

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Exam: MERN STACK

Score: 39.0/47.0

Percentage: 82.98%

Question-wise Summary

Sr.no	Question	Selected Answer	Correct Answer
1	What is the primary purpose of the useState hook in React?	To manage local component state	To manage local component state
2	When does a useEffect hook with an empty dependency array [] run?	Only once after the initial mount	Only once after the initial mount
3	Why does React use a Virtual DOM?	To optimize UI updates by minimizing direct DOM manipulation	To optimize UI updates by minimizing direct DOM manipulation

4	How are lifecycle events handled in functional components?	Using Class methods	Using Hooks (e.g., useEffect)
5	In Redux, what is the role of a "Reducer"?	To dispatch events	To update state based on actions as a pure function
6	What is the best way to pass data from a child component to a parent?	Using Callback functions as props	Using Callback functions as props
7	What is the importance of the key prop when rendering lists in React?	To help React identify which items have changed or moved	To help React identify which items have changed or moved

8	When should you use React.memo?	To prevent unnecessary re-renders of a component	To prevent unnecessary re-renders of a component
9	What problem does the Context API primarily solve?	Prop Drilling across multiple levels	Prop Drilling across multiple levels
10	Where should static data be defined in a functional component to avoid re-creation on every render?	Inside the useEffect hook	Outside the component function
11	What does JSX stand for?	JavaScript XML	JavaScript XML
12	In a controlled component, where is the form data handled?	By the component's state	By the component's state

13	What is the main benefit of using 'Interfaces' in TypeScript?	Defining the shape/structure of an object	Defining the shape/structure of an object
14	What is the purpose of the useParams hook in React Router?	To access dynamic parameters from the URL	To access dynamic parameters from the URL
15	What is a Higher-Order Component (HOC)?	A function that takes a component and returns a new component	A function that takes a component and returns a new component
16	Which JavaScript engine powers Node.js?	V8 Engine	V8 Engine
17	What is the primary role of 'Middleware' in Express.js?	To execute code during the Request/Response cycle	To execute code during the Request/Response cycle

18	Which HTTP method is typically used to update an existing resource in a REST API?	PUT / PATCH	PUT / PATCH
19	Which Node.js module is used for handling file system operations?	fs	fs
20	How many parts does a JSON Web Token (JWT) consist of?	3	3
21	How do you define a dynamic path parameter in an Express route?	/user/:id	/user/:id

22	How can you handle asynchronous operations in Node.js?	Using Callbacks, Promises, or Async/Await	Using Callbacks, Promises, or Async/Await
23	Which middleware is used to parse JSON bodies in Express 4.x+?	express.json()	express.json()
24	What is the main purpose of the Node.js Event Loop?	To handle non-blocking I/O operations	To handle non-blocking I/O operations
25	Why is module.exports used in Node.js?	To share functions or objects between files	To share functions or objects between files
26	Is Node.js fundamentally single-threaded?	Yes	Yes

27	How many arguments does an Express global error-handling middleware take?	3	4 (err, req, res, next)
28	What does CORS stand for?	Cross-Origin Resource Sharing	Cross-Origin Resource Sharing
29	What happens when you run npm install --save-dev?	It installs a dependency for development only	It installs a dependency for development only
30	What is the use of process.env in a Node.js application?	To access environment variables	To access environment variables
31	What type of database is MongoDB?	NoSQL (Document-oriented)	NoSQL (Document-oriented)

32	In MongoDB, what is a single record called?	Document	Document
33	What is the purpose of a 'Schema' in Mongoose?	To define the structure of documents in a collection	To define the structure of documents in a collection
34	Which operator is used to update a specific field in a MongoDB document?	\$update	\$set
35	What is the role of \$match in a MongoDB Aggregation Pipeline?	To filter documents based on a condition	To filter documents based on a condition
36	What is the default port for a MongoDB server?	27017	27017

37	Why is the populate() method used in Mongoose?	To replace IDs with actual documents from other collections	To replace IDs with actual documents from other collections
38	A 'Collection' in MongoDB is equivalent to what in SQL?	Row	Table
39	What is the primary benefit of Database Indexing?	To improve query performance speed	To improve query performance speed
40	Is the _id field in a MongoDB document immutable by default?	No	Yes
41	What is the output of typeof null in JavaScript?	"object"	"object"

42	What is a "Closure" in JavaScript?	A function bundled with its lexical environment	A function bundled with its lexical environment
43	What does the Array .map() method return?	A new array with transformed elements	A new array with transformed elements
44	What is 'Hoisting' in JavaScript?	Moving declarations to the top of their scope	Moving declarations to the top of their scope
45	What does Promise.all() reject?	As soon as any one promise rejects	As soon as any one promise rejects
46	Which symbol represents the ES6 Spread operator?	...	...
47	Which symbol represents the ES6 Spread operator?	...	...