

Student Result

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Exam: MERN STACK

Score: 4.0/47.0

Percentage: 8.51%

Question-wise Summary

Sr.no	Question	Selected Answer	Correct Answer
1	What is the primary purpose of the useState hook in React?	To manage API calls	To manage local component state
2	When does a useEffect hook with an empty dependency array [] run?	Only when props change	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	<p>How are lifecycle events handled in functional components?</p>	<p>Using Class methods</p>	<p>Using Hooks (e.g., useEffect)</p>
5	<p>In Redux, what is the role of a "Reducer"?</p>	<p>To dispatch events</p>	<p>To update state based on actions as a pure function</p>
6	<p>What is the best way to pass data from a child component to a parent?</p>	<p>Through Prop Drilling</p>	<p>Using Callback functions as props</p>
7	<p>What is the importance of the key prop when rendering lists in React?</p>	<p>To execute loops faster</p>	<p>To help React identify which items have changed or moved</p>

8	When should you use <code>React.memo?</code>	To define routes	To prevent unnecessary re-renders of a component
9	What problem does the Context API primarily solve?	Database connectivity	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 return statement	Outside the component function
11	What does JSX stand for?	JavaScript Extension	JavaScript XML
12	In a controlled component, where is the form data handled?	By the DOM	By the component's state

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

18	<p>Which HTTP method is typically used to update an existing resource in a REST API?</p>	DELETE	PUT / PATCH
19	<p>Which Node.js module is used for handling file system operations?</p>	http	fs
20	<p>How many parts does a JSON Web Token (JWT) consist of?</p>	4	3
21	<p>How do you define a dynamic path parameter in an Express route?</p>	/user/?id	/user/:id

22	<p>How can you handle asynchronous operations in Node.js?</p>	<p>Using for-loops</p>	<p>Using Callbacks, Promises, or Async/Await</p>
23	<p>Which middleware is used to parse JSON bodies in Express 4.x+?</p>	<p>url.parse()</p>	<p>express.json()</p>
24	<p>What is the main purpose of the Node.js Event Loop?</p>	<p>To stop the server on error</p>	<p>To handle non-blocking I/O operations</p>
25	<p>Why is module.exports used in Node.js?</p>	<p>To export data to a database</p>	<p>To share functions or objects between files</p>
26	<p>Is Node.js fundamentally single-threaded?</p>	<p>No</p>	<p>Yes</p>

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

32	In MongoDB, what is a single record called?	Table	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?	\$change	\$set
35	What is the role of \$match in a MongoDB Aggregation Pipeline?	To sort results	To filter documents based on a condition
36	What is the default port for a MongoDB server?	5432	27017

37	<p>Why is the populate() method used in Mongoose?</p>	<p>To encrypt data</p>	<p>To replace IDs with actual documents from other collections</p>
38	<p>A 'Collection' in MongoDB is equivalent to what in SQL?</p>	<p>Table</p>	<p>Table</p>
39	<p>What is the primary benefit of Database Indexing?</p>	<p>To improve UI design</p>	<p>To improve query performance speed</p>
40	<p>Is the _id field in a MongoDB document immutable by default?</p>	<p>Only for admins</p>	<p>Yes</p>
41	<p>What is the output of typeof null in JavaScript?</p>	<p>"undefined"</p>	<p>"object"</p>

42	What is a "Closure" in JavaScript?	Ending a loop	A function bundled with its lexical environment
43	What does the Array .map() method return?	The length of the array	A new array with transformed elements
44	What is 'Hoisting' in JavaScript?	<i>Not Answered</i>	Moving declarations to the top of their scope
45	What does Promise.all() reject?	Never	As soon as any one promise rejects
46	Which symbol represents the ES6 Spread operator?	<i>Not Answered</i>	...
47	Which symbol represents the ES6 Spread operator?	&&	...