

Student Result

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Exam: MERN STACK

Score: 17.0/47.0

Percentage: 36.17%

Question-wise Summary

Sr.no	Question	Selected Answer	Correct Answer
1	What is the primary purpose of the useState hook in React?	To define the HTML structure	To manage local component state
2	When does a useEffect hook with an empty dependency array [] run?	Whenever the state updates	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 Hooks (e.g., useEffect)	Using Hooks (e.g., useEffect)
5	In Redux, what is the role of a "Reducer"?	To store the entire UI state	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 execute loops faster	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?	Form validation	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 refresh the current page	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?	SpiderMonkey	V8 Engine
17	What is the primary role of 'Middleware' in Express.js?	To render front-end templates only	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?	http	fs
20	How many parts does a JSON Web Token (JWT) consist of?	2	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+?	body.reader()	express.json()
24	What is the main purpose of the Node.js Event Loop?	To handle CPU-intensive tasks	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?	4 (err, req, res, next)	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 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 check available RAM	To access environment variables
31	What type of database is MongoDB?	Relational (SQL)	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 encrypt passwords	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?	3306	27017

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

42	What is a "Closure" in JavaScript?	Closing a browser tab	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?	A memory leak	Moving declarations to the top of their scope
45	What does Promise.all() reject?	When all promises fail	As soon as any one promise rejects
46	Which symbol represents the ES6 Spread operator?	...	...
47	Which symbol represents the ES6 Spread operator?	...	...