

Student Result

Student Name: Razique Shaikh

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 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 Hooks (e.g., useEffect)	Using Hooks (e.g., useEffect)
5	In Redux, what is the role of a "Reducer"?	<i>Not Answered</i>	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?	<i>Not Answered</i>	Using Callback functions as props
7	What is the importance of the key prop when rendering lists in React?	<i>Not Answered</i>	To help React identify which items have changed or moved

8	When should you use React.memo?	<i>Not Answered</i>	To prevent unnecessary re-renders of a component
9	What problem does the Context API primarily solve?	<i>Not Answered</i>	Prop Drilling across multiple levels
10	Where should static data be defined in a functional component to avoid re-creation on every render?	<i>Not Answered</i>	Outside the component function
11	What does JSX stand for?	<i>Not Answered</i>	JavaScript XML
12	In a controlled component, where is the form data handled?	<i>Not Answered</i>	By the component's state

13	What is the main benefit of using 'Interfaces' in TypeScript?	<i>Not Answered</i>	Defining the shape/structure of an object
14	What is the purpose of the useParams hook in React Router?	<i>Not Answered</i>	To access dynamic parameters from the URL
15	What is a Higher-Order Component (HOC)?	<i>Not Answered</i>	A function that takes a component and returns a new component
16	Which JavaScript engine powers Node.js?	<i>Not Answered</i>	V8 Engine
17	What is the primary role of 'Middleware' in Express.js?	<i>Not Answered</i>	To execute code during the Request/Response cycle

18	Which HTTP method is typically used to update an existing resource in a REST API?	<i>Not Answered</i>	PUT / PATCH
19	Which Node.js module is used for handling file system operations?	<i>Not Answered</i>	fs
20	How many parts does a JSON Web Token (JWT) consist of?	<i>Not Answered</i>	3
21	How do you define a dynamic path parameter in an Express route?	<i>Not Answered</i>	/user/:id

22	How can you handle asynchronous operations in Node.js?	<i>Not Answered</i>	Using Callbacks, Promises, or Async/Await
23	Which middleware is used to parse JSON bodies in Express 4.x+?	<i>Not Answered</i>	express.json()
24	What is the main purpose of the Node.js Event Loop?	<i>Not Answered</i>	To handle non-blocking I/O operations
25	Why is module.exports used in Node.js?	<i>Not Answered</i>	To share functions or objects between files
26	Is Node.js fundamentally single-threaded?	<i>Not Answered</i>	Yes

27	How many arguments does an Express global error-handling middleware take?	<i>Not Answered</i>	4 (err, req, res, next)
28	What does CORS stand for?	<i>Not Answered</i>	Cross-Origin Resource Sharing
29	What happens when you run npm install --save-dev?	<i>Not Answered</i>	It installs a dependency for development only
30	What is the use of process.env in a Node.js application?	<i>Not Answered</i>	To access environment variables
31	What type of database is MongoDB?	<i>Not Answered</i>	NoSQL (Document-oriented)

32	In MongoDB, what is a single record called?	<i>Not Answered</i>	Document
33	What is the purpose of a 'Schema' in Mongoose?	<i>Not Answered</i>	To define the structure of documents in a collection
34	Which operator is used to update a specific field in a MongoDB document?	<i>Not Answered</i>	\$set
35	What is the role of \$match in a MongoDB Aggregation Pipeline?	<i>Not Answered</i>	To filter documents based on a condition
36	What is the default port for a MongoDB server?	<i>Not Answered</i>	27017

37	Why is the populate() method used in Mongoose?	<i>Not Answered</i>	To replace IDs with actual documents from other collections
38	A 'Collection' in MongoDB is equivalent to what in SQL?	<i>Not Answered</i>	Table
39	What is the primary benefit of Database Indexing?	<i>Not Answered</i>	To improve query performance speed
40	Is the _id field in a MongoDB document immutable by default?	<i>Not Answered</i>	Yes
41	What is the output of typeof null in JavaScript?	<i>Not Answered</i>	"object"

42	What is a "Closure" in JavaScript?	<i>Not Answered</i>	A function bundled with its lexical environment
43	What does the Array .map() method return?	<i>Not Answered</i>	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?	<i>Not Answered</i>	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?	<i>Not Answered</i>	...