



RAN-2111040103040002

MCA (Sem. - III) Examination November - 2025

Full Stack Technologies (Paper - 304)

Time: 3 Hours]

[Total Marks: 70

સૂચના : / Instructions

(1) ઉપરોક્ત દર્શાવેલ વિગતો ઉત્તરવહી પર અવશ્ય લખવી.

Fill up strictly the above details on your answer book.

Seat No.:

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Student's Signature

Q. 1. Answer the following questions (Any 7)

(14)

1. What is the use of inner HTML property?
2. What is the use of JSON?
3. What is a request object?
4. What is cookie?
5. Define the props in react.
6. Identify the reasons for not updating the state directly.
7. What will be the output of $5 + \text{null}$?
8. Give the advantages of React.
9. Define JSX with appropriate example.

Q. 2. (A) What is Express? Write a code to create a server using express on port 3100 and explain code.

(07)

(B) Explain spread and rest operators with example.

(07)

Q. 3. (A) Compare Callbacks, Promises, and Async/Await with suitable examples. Discuss the problem of "Callback Hell".

(07)

(B) Give a brief about Axios. And explain the get request and put request methods with suitable example..

(07)

OR

Q. 3. (A) Explain Closures and Lexical Scope in detail. Give three practical applications of closures.

(07)

(B) Explain React Router. Show examples of simple routes, nested routes, and protected routes with authentication.

(07)

Q. 4. (A) Explain use Reducer and use Callback hook methods with suitable example.

(07)

OR

(A) Define the term hook. List out hook methods and explain any two methods in detail. **(07)**

(B) Create a registration form with fields name, email and password using useState. **(07)**

Q. 5. (A) Write a code for following. (Any Two)

(10)

1. Create a node server and send Hello world with current date to browser from port 3000.
2. Apply validation on employee form with fields emp_name, email, password and _code using Yup.
3. Create employee form with fields emp_name, email, password and employee_code using Formik.

(B) Answer the following questions.

(04)

1. What is Node.js and why we should use it?
 2. How do schema and object model work together?
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