

**2111040103040002**  
**EXAMINATION NOVEMBER 2024**  
**MASTER OF COMPUTER APPLICATIONS**  
**(THIRD SEMESTER)**  
**FULL STACK TECHNOLOGY - LEVEL 4**

[Time: As Per Schedule]

[Max. Marks: 70]

**Instructions:**

**1. Fill up strictly the following details on your answer book**

- a. Name of the Examination : **MASTER OF COMPUTER APPLICATIONS (THIRD SEMESTER)**
  - b. Name of the Subject : **FULL STACK TECHNOLOGY - LEVEL 4**
  - c. Subject Code No : **2111040103040002**
2. Sketch neat and labelled diagram wherever necessary.
  3. Figures to the right indicate full marks of the question.
  4. All questions are compulsory.

Seat No:

--	--	--	--	--	--

Student's Signature

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

**14**

- i. What is Javascript?
- ii. Describe the concept of hoisting in JavaScript.
- iii. When to use callback?
- iv. What is a request object?
- v. How do schema and object model work together?
- vi. Define the props in react.
- vii. Explain the purpose of modules in Express.js.
- viii. What is an Express Router, and how is it beneficial in routing?
- ix. Define JSX with appropriate example.

**Q.2 (A) How does Express.js work?**

**7**

**(B) Explain the difference between frontend and backend development?**

**7**

**Q.3 (A) Explain filter, map and reduce array methods with appropriate example**

**7**

**(B) What are the javascript objects? Explain different ways to create new javascript objects?**

**7**

**OR**

**(A) Explain the forEach and find method of arrays with example.**

**7**

(B) Describe the role of Express.js in building web applications. 7

**Q.4** (A) Explain req. body and req. param in detail. 7

**OR**

(A) How do you pass props between components? Explain it with example. 7

(B) Define the term hook. List out hook methods and explain any two methods in detail. 7

**Q.5** (A) Write a code for following. (Any Two) 10

- i. Create a server using express on port 8800.
- ii. What is the use of the findOne method? How is it different from find?
- iii. Describe the different methods for error handling in JavaScript, including try, catch, and finally blocks, as well as custom error messages.

**(B) Answer the following questions** 4

- i. Any one array method of javascript
- ii. What is arrow function?

\*\*\*\*\*