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RAN-2111040102020002

MCA (Sem. - II) Examination April - 2025

Front End Technologies (Paper : 202)

Time: 3 Hours]

[Total Marks: 70

સૂચના : / Instructions

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નીચે દર્શાવેલ નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
Fill up strictly the details of signs on your answer book

Name of the Examination:

MCA (Sem. - II)

Name of the Subject :

Front End Technologies (Paper : 202)

Subject Code No.: **2111040102020002**

Seat No.:

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Student's Signature

- Q.1**
1. Explain the purpose and advantages of HTML5 form input elements. **6**
 2. What are the different types of CSS positioning? Explain with examples. **5**

OR

Discuss the differences between inline, block, and flex elements in CSS.

3. Explain the concept of the CSS Box Model. **3**
- Q.2**
1. Explain the concept of closures in JavaScript with an example. **6**
 2. What are the advantages of using arrow functions? Explain it with example **5**
 3. Describe localStorage and sessionStorage in JavaScript. **3**

OR

What is the difference between == and === operators in JavaScript?

Q.3 1. What is the Bootstrap Grid system? Explain with an example. **6**

OR

Explain how Bootstrap helps in mobile-first web development.

2. What is the difference between Bootstrap's .container and .container-fluid? Explain it with example. **5**

3. What are Bootstrap responsive utilities? **3**

Q.4 1. Develop an AngularJS application to filter a list of names using the filter directive and display the results in a table. **6**

2. Explain the role of AngularJS expressions and how they differ from JavaScript expressions. **5**

OR

Evaluate the advantages of using AngularJS views over static HTML pages.

3. Describe how AngularJS controllers manage data and behaviour in an application with an example. **3**

Q.5 1. Create an Angular component with a reactive form to collect user details (e.g., name, email) and display the submitted data below the form. **7**

OR

What is the significance of TypeScript in Angular? Explain it with example

2. Evaluate the role of Angular Routing in building single-page applications (SPAs) compared to traditional multi-page applications. **5**

3. What is the purpose of AppModule in Angular? **2**