

RAN-2111040102020002

MCA (Sem.-II) Examination April - 2026

Front End Technologies (Paper - 202)

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.: <table border="1"> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table> Student's Signature						

- Q. 1. Answer the following questions (Any Seven) 14**
1. What is the purpose of semantic HTML? Give two examples.
 2. What is responsive web design? Why is it important?
 3. Explain the difference between Flexbox and traditional layout methods (like float).
 4. What is CSS Box Model? Name its components.
 5. What is CSS specificity? Explain in brief.
 6. What is the difference between em and rem units?
 7. Explain any two CSS positioning properties with an example.
 8. What is the difference between block and inline elements?
- Q. 2. Answer the Following (Any 2) 14**
1. Explain the concept of JavaScript scope (global, local, block) with suitable examples.
 2. A developer wants to execute code only after the DOM is fully loaded.
 3. Explain how this can be achieved in JavaScript with an example.
 4. Write a JavaScript function to reverse a string and explain the logic step by step.
- Q. 3. Answer the Following (Any 2) 14**
1. A webpage needs to display product cards in rows that adjust based on screen size. Design the layout using Bootstrap and explain your approach.
 2. Explain how Bootstrap handles spacing (margin and padding). Provide examples of utility classes and their usage.
 3. A developer wants to customize Bootstrap theme colours and styles. Explain how this can be achieved without breaking responsiveness.
- Q. 4. Answer the Following (Any 4) 14**
1. Explain how AngularJS handles user input using ng-model and demonstrate with example.
 2. A webpage needs to conditionally display content based on user action. Explain how ng-if and ng-show can be used and compare them.
 3. Explain how AngularJS controllers communicate with views. Provide a simple example.

4. A developer needs to format data (date or currency) before displaying it. Explain how AngularJS filters can be used for this purpose.
5. Explain how AngularJS services help in code reusability. Provide example scenario.

Q. 5. Answer the Following (Any 4)

14

1. Explain how Angular handles event binding and demonstrate with example.
 2. A form needs to display validation errors dynamically. Explain how Angular forms handle validation and error display.
 3. Explain difference between property binding and event binding in Angular with example.
 4. A component needs to share data with another component. Explain how Angular achieves component communication.
 5. Explain advantages of using Angular CLI in project development.
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