



RAN-2111040103030002

MCA (Sem. - III) Examination November - 2025

Advanced Web Technologies (Paper - 303)

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 in Short (Any 7) (14)

- 1) Define URL routing.
- 2) What is meant by API consumption?
- 3) What are Minimal APIs in .NET 8?
- 4) What is state management in ASP.NET?
- 5) What is a controller in MVC?
- 6) What is the Code First approach in Entity Framework?
- 7) Define Blazor Web Assembly.
- 8) What are error events in ASP.NET?

Q. 2. Write a Detailed note. (Any 2) (14)

- 1) Write a detailed note on error handling and custom error pages in ASP.NET.
- 2) Explain the MVC architecture with a diagram. Explain in detail the Model component.
- 3) Explain the key enhancements and new features introduced in .NET 8.

Q. 3. (A) What is JSON? Explain the structure and purpose of JSON with suitable examples. (07)

OR

Q. 3. (A) Explain the concept of Minimal APIs in .NET 8.

Q. 3. (B) What is state management? Explain with an example, cookies and query string. (07)

Q. 4. (A) Write a detailed note on Filters. Explain with an example their usage in an application. (07)

Q. 4. (B) Explain the differences between Code First and Data First approaches in Entity Framework. In which situations would you prefer one over the other? (07)

Q. 5. (A) Write an MVC application code that shows the student data. Create a view to take input of the course name (MCA, MSc, MBA) and display data of students in a specific course. Create a model that has a method to do data processing. (08)

Q. 5. (B) Write answers in short. (Any 2) (06)

- 1) Explain the usage and purpose of URL routing with an example.
- 2) What is the usage of HTTP status codes? List out the various HTTP status codes.
- 3) Explain with an example the working of a session object.