

**RAN-2111040103050002****MCA (Sem. - III ) Examination November - 2025****Open Source Web Based Programming (Paper - 305)****[ 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.:

     

Student's Signature

**Q. 1. Answer the Following Questions. (Any 7 )****(14)**

1. Explain the difference between indexed, associative, and multidimensional arrays with examples.
2. Discuss operator precedence in PHP.
3. Explain error handling functions in PHP.
4. What is the purpose of isset() and empty()? Explain with examples.
5. Explain date() and time() functions with examples.
6. Explain the role of responseType and responseXML in AJAX.
7. Explain inheritance with syntax and example.
8. Explain session management and its types.
9. What is the purpose of explode() and implode()? Give examples..

**Q. 2. Answer the Following Questions. (Any 2)****(14)**

1. Explain error handling in PHP. Write examples for die(), try-catch, and custom error handling.
2. Explain AJAX-PHP integration with example.
3. Explain Laravel controllers and request/response handling.

**Q. 3. Answer the Following Questions. (Any 2 )****(14)**

1. What are Blade components? Give an example of creating and using a simple component.
2. Explain conditional and loop directives in Blade.
3. What is authentication scaffolding? What commands are used to generate auth UI? Explain it with example.

**Q. 4. (A) Answer the Following Questions. (Any 3 )****(12)**

1. Explain mathematical functions in PHP.
2. Explain displaying databases & managing users in MySQL.
3. Explain database queries using AJAX.
4. Discuss data relationships in Laravel ORM.
5. Explain CSRF protection in Laravel.

**Q. 4. (B) Write a PHP script to check whether a number is prime.****(02)**

**Q. 5. (A) Answer the Following Questions. (Any 3 )**

**(09)**

1. Why MySQL is the most widely used open-source database?
2. Why do we use Eloquent instead of writing SQL inside controllers?
3. Why authentication and authorization should be handled separately?
4. Why Blade components make views more reusable?
5. What is the importance of AJAX in modern single-page applications?

**(B) Write Laravel code for a simple login process (controller function + route).**

**(05)**

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