

**2111040103050002**  
**EXAMINATION MARCH-APRIL 2024**  
**MASTER OF COMPUTER APPLICATIONS**  
**(THIRD SEMESTER)**  
**OPEN SOURCE WEB BASED PROGRAMMING**  
**LEVEL 5**

[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 : **OPEN SOURCE WEB BASED PROGRAMMING LEVEL 5**
  - c. Subject Code No : **2111040103050002**
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 Seven)**

**14**

- (1) What are the different types of PHP variables?
- (2) What is the differences between  $\$x! = \$y$  and  $\$x! == \$y$ ?
- (3) What is use of header function?
- (4) What is the use of unlink and isset function?
- (5) What are the methods to use to count no of elements an array?
- (6) How does Laravel handle cookies?
- (7) What is the role of a controller in MVC?
- (8) What is artisan in Laravel?

**Q.2 (A) Answer the following questions. (Any two)**

**10**

- 1) What is cookies? Explain it with example.
- 2) Explain different functionalities of php.ini.
- 3) Discuss the importance of validation in web development and how Laravel facilitates this process. Provide examples of different types of validation rules and techniques.

**(B) Write causes and solution for following.(Any One)** **4**

- (1) Parse error: syntax error, unexpected T\_ECHO in
- (2) Warning: Cannot modify header information - headers already sent by...

**Q.3 (A) Answer the following. (Any two)** **14**

- 1) Describe how Laravel handles encryption and data security. Discuss the use of encryption for protecting sensitive information and provide examples where encryption would be crucial.
- 2) Explain the Model-View-Controller (MVC) architectural pattern in web development. Write the benefits of using MVC for complex web applications. Give an example, how each component (Model, View, and Controller) would interact in the context of MVC.
- 3) Describe the role of routing in a Laravel application. Explain how routing allows for the handling of different types of HTTP requests. Provide an example for the same.

**Q.4 (A) Explain following functions with example (Any two)** **10**

- 1) Str\_replace
- (2) Split
- (3) Header()

**4**

**(B) Write note on following.**

- (1) URL generation in Laravel
- (2) Middleware in Laravel

**Q.5 Answer the following. (Any two)** **14**

- 1) What is XML? How to make XML file from mysql data.
- 2) Explain mail functionality with example.
- 3) What is GD library? Explain How we can generate alpha-numeric only CAPTCHA using GD library with example.

\*\*\*\*\*