

**IM.Sc. (CS) (NEP) Sem.-4 Examination
Web Application Development**

Time : 2.30 Hours]

July-2025

[Max.Marks : 50

Q-1 Attempt following questions. [10]

- (a) Explain the client-server model with a real-life analogy. [5]
 (b) Explain the steps involved when a user accesses a PHP webpage via a web browser. [5]

OR

- (a) Explain Single Line Comments and Multiline Comments in PHP. [5]
 (b) Explain the difference between the == and === operators in PHP with suitable examples. [5]

Q-2 Attempt following questions. [10]

- (a) Explain how the mysqli_connect() function works in PHP. What parameters does it require? [5]
 (b) Describe how the SELECT query is used in PHP to fetch records from a MySQL table. [5]

OR

- (a) What are prepared statements in PHP, and how do they help in executing SQL queries securely? [5]
 (b) Explain how you would update a specific row in a MySQL table using PHP. [5]

Q-3 Attempt following questions. [10]

- (a) Explain how to define a class and create an object in PHP. What is the role of the \$this keyword? [5]
 (b) Explain the purpose of a constructor in a PHP class. How is it defined and used? [5]

OR

- (a) Describe how inheritance is implemented in PHP. What are the advantages of inheritance? [5]
 (b) Explain how exceptions are handled in PHP using try, catch, and finally blocks. [5]

Q-4 Attempt following questions. [10]

- (a) What is FlightPHP frameworks? And what is the importance of FlightPHP? [5]
 (b) Describe the Model-View-Controller (MVC) architecture and explain how it works in PHP-based web applications. [5]

OR

- (a) Describe the key features and purposes of these five PHP frameworks: FuelPHP, CakePHP, Yii, Laravel, and Zend. [5]
 (b) Assume you're developing a basic Student Management Portal project. Describe how you would divide the project into different functional modules (e.g., Student, Course, Marks). Write this as a project plan. [5]

(P.T.O)

Q-5 Attempt any 10 questions.

[10]

- (a) Which function is used to print output in PHP?
- (b) What is the full form of HTTP?
- (c) What is more secure method GET or POST?
- (d) What function is used to fetch data row-by-row from MySQL?
- (e) Which function is used to handle SQL errors in mysqli?
- (f) Which SQL command is used to delete data from a table?
- (g) What is the full form of OOP?
- (h) What function starts a PHP session?
- (i) Name any one access modifier in PHP.
- (j) What does MVC stand for?
- (k) Name any one PHP framework.
- (l) If you are developing a College Management Portal using a PHP framework, list any five database tables you would include in the project?

****All the Best****