

GYANMANJARI INNOVATIVE UNIVERSITY

GYANMANJARI INSTITUTE OF TECHNOLOGY

B.Tech.-Mid Semester Examination (MSE)-W2026

Enrollment No.: _____

Subject Code: BETCE15316

Subject Name: Advance Web Development

Time: 10:30 AM TO 12:30 PM

Date: 24/09/2026

Semester: 5TH

Total Marks: 60

Instructions:

1. Question No. 1 is compulsory.
2. Make suitable Assumptions wherever necessary.
3. Figures to the right indicate full marks.

		Marks
Q.1	(a) What is Object-Oriented Programming in PHP? Explain the basic concepts of OOP used in PHP.	05
	(b) What is the purpose of a constructor and destructor in PHP? Explain with an example.	05
	(c) Write a PHP program to demonstrate inheritance and method overriding using a parent class Vehicle and two child classes Car and Bike. • Create a parent class Vehicle with a method start() that displays "Vehicle is starting". • Create a child class Car that inherits from Vehicle and override the start() method to display "Car is starting with a key". • Create another child class Bike that inherits from Vehicle and override the start() method to display "Bike is starting with a self-start button". • Create objects of both Car and Bike classes and call the start() method to demonstrate inheritance and method overriding.	10
Q.2	(a) What are namespaces in PHP? Explain how namespaces help in avoiding naming conflicts.	05
	(b) How can you fetch records using fetch(), fetchAll(), and fetchColumn() in PDO? Explain with suitable examples.	05

OR

- | | | |
|-----|--|----|
| (b) | What is a prepared statement? Why is it important for secure database programming? | 05 |
| (c) | Write a PHP program using PDO to manage book records in a MySQL database using prepared statements. <ul style="list-style-type: none">• Create a books table with fields id(Primary Key), title, author, price, and category.• Insert a new book record using a PDO prepared statement.• Update the price of a book using the book's id using a PDO prepared statement.• Delete a book record using the book's id using a PDO prepared statement. | 10 |

Display appropriate messages for Insert, Update, and Delete operations.

OR

- (c) Explain how prepared statements and parameter binding help prevent SQL Injection. Show the difference between an unsafe query and a secure query. 10

Q.3 (a) What is the difference between input validation and input sanitization? Give suitable examples. 05

(b) What are session hijacking and session fixation? Mention suitable measures to prevent them. 05

(c) Write a secure PHP program to upload a file to the server by performing proper validation and security checks before storing the file. 10

The program should perform the following operations:

- Get and display the uploaded file path.
- Get and display the uploaded file name.
- Check and validate the file type/extension.
- Check whether the uploaded file is an image file or not.
- Check whether a file with the same name already exists on the server.
- Check and validate the file size and reject files exceeding the specified limit.
- Allow only valid image files such as JPG, JPEG, PNG, and GIF.
- If all validation checks are successful, store the uploaded file in the specified server folder and display an appropriate success message.
- If any validation fails, display a suitable error message without storing the file.

OR

Q.3 (a) What are the common security measures that should be considered while handling file uploads in PHP? 05

(b) What is AJAX? How does AJAX improve the user experience of a web application? 05

(c) Differentiate between synchronous and asynchronous requests. 10

...Best Of Luck...