

Q.5	Attempt any two:						Total No. of Questions: 6	Total No. of Printed Pages: 4
	i. Explain AJAX and its role in web development. How does AJAX differ from traditional page loading? List some key benefits of using AJAX in web applications.	5	4	5	5			Enrollment No.....
	ii. Explain the process of an AJAX request and response cycle. Describe the functions of XMLHttpRequest in AJAX and the stages involved from sending a request to receiving a response from the server.	5	2	5	5			Faculty of Science / Engineering End Sem Examination Dec 2024 CA3EL03 Advanced PHP
Q.6	iii. Explain the basics of jQuery syntax. Describe different types of jQuery selectors and give examples of how each selector can be used to access elements in the HTML.	5	3	5	5		Programme: BCA / BCA- MCA (Integrated)	Branch/Specialisation: Computer Application
	Attempt any two:							Maximum Marks: 60
	i. Explain the process of integrating PHP, AJAX, and jQuery with a MySQL database. Describe how each component interacts with the others in a dynamic web application, detailing the role of PHP, AJAX, and jQuery.	5	2	6	5			
Q.6	ii. Explain how AJAX and jQuery can be used to retrieve data from a MySQL database without refreshing the page.	5	2	5	5			
	iii. Describe how PHP forms can be integrated with a MySQL database using sessions. Explain the importance of sessions in maintaining user state and security.	5	2	5	5			



Knowledge is Power



Knowledge is Power

Duration: 3 Hrs.

Note: All questions are compulsory. Internal choices, if any, are indicated. Answers of Q.1 (MCQs) should be written in full instead of only a, b, c or d. Assume suitable data if necessary. Notations and symbols have their usual meaning.

	Marks	BL	PO	CO	PSO
Q.1 i. Which of the following blocks is used to handle exceptions in PHP?	1	1	1	1	
(a) try (b) catch (c) throw (d) All of these					
ii. What are PHP filters primarily used for?	1	2	1	2	
(a) Validating and sanitizing data (b) Formatting dates (c) Creating custom exceptions (d) Catching exceptions					
iii. To copy a file in PHP, which function should be used?	1	1	2	3	
(a) copy_file() (b) duplicate() (c) copy() (d) file_copy()					
iv. Which of the following is a correct way to define a regular expression pattern in PHP?	1	2	1	3	
(a) /pattern/ (b) pattern() (c) #pattern# (d) Both (a) and (c)					
v. Which function is used to delete a cookie in PHP?	1	1	2	4	
(a) remove_cookie() (b) unsetcookie() (c) rd_cookie() (d) setcookie("cookie_name", "", time() - 3600);					

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- vi. Which PHP function is commonly used to send email?
 (a) sendmail()
 (b) mail()
 (c) email_send()
 (d) smtp_mail()
 - vii. How does Ajax work with PHP?
 (a) By embedding PHP code directly in JavaScript
 (b) By sending HTTP requests to a PHP script and processing the response
 (c) By using PHP to manipulate the DOM
 (d) By converting PHP into JavaScript
 - viii. Which of the following is a key feature of jQuery?
 (a) Simplified DOM manipulation
 (b) Supports AJAX
 (c) Cross-browser compatibility
 (d) All of these
 - ix. What does Ajax allow you to do when interacting with a MySQL database?
 (a) Refresh the entire page for each request
 (b) Send and retrieve data asynchronously
 (c) Access the database directly from the client-side
 (d) None of these
 - x. How do you send data to a PHP script using Ajax?
 (a) Through the URL as query parameters
 (b) By using the data option in \$.ajax()
 (c) Using form submission
 (d) Both (a) and (b)
- Q.2** Attempt any two:
- i. Describe the process of exception handling in PHP, including the roles of try, catch, and finally blocks. Discuss what happens when an exception is thrown. Provide an example that demonstrates how these blocks work together.
 - ii. Write a detailed explanation of how to create a custom exception class in PHP. Include an example
- | | | | |
|----------|---|---|---|
| 1 | 1 | 3 | 4 |
| 1 | 2 | 2 | 5 |
| 1 | 1 | 1 | 5 |
| 1 | 2 | 1 | 5 |
| 1 | 2 | 2 | 5 |
| 5 | 3 | 1 | 1 |
| 5 | 3 | 2 | 1 |

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- that shows how to define a custom exception class, throw an instance of that exception, and catch it. Discuss the advantages of using custom exceptions and provide scenarios where they might be particularly useful.
- iii. Describe what PHP filters are and their purpose in web applications. Explain the difference between validation and sanitization. Provide examples of common filters available in PHP and their use cases, including at least three different types of filters.
- Q.3** Attempt any two:
- i. Explain various advantages of file and directory operations in PHP. Provide examples for Opening & Closing a File, Copying a file, renaming & deleting a file, read & write data from a file.
 - ii. Describe the steps required to set up a PHP script to handle file uploads from a web form.
 - iii. Explain various functions used with regular expressions in PHP and provide examples of when each might be applied.
- Q.4** Attempt any two:
- i. Explain what cookies are in the context of web development. Write a PHP script that creates a cookie named "user" with a value of "BCA V" and sets it to expire in one year. Demonstrate how to check if the cookie exists and, if it does, retrieve and display its value on the webpage.
 - ii. Explain what sessions are in PHP, how they differ from cookies, and discuss use of session in web applications.
 - iii. Write a program to send email in PHP along with a user interface in HTML.
- | | | | | | |
|----------|---|---|---|---|---|
| 5 | 3 | 3 | 2 | 2 | 3 |
| 5 | 3 | 3 | 3 | 3 | 3 |
| 5 | 3 | 3 | 3 | 3 | 3 |
| 5 | 3 | 2 | 4 | | |
| 5 | 3 | 3 | 4 | | |
| 5 | 3 | 2 | 4 | | |

Marking Scheme

CA3EL03 (T) Advanced PHP (T)

Q.1	i) d ii) a iii) c iv) d v) d vi) b vii) b viii) d ix) b x) d	1 1 1 1 1 1 1 1 1 1			
			Q.4 i. Explain what cookies are - 2 Write a PHP script that creates a cookie named “user” with a value of “BCA V” and sets it to expire in one year. – 2 check if the cookie exists and, if it does, retrieve and display its value on the webpage - 1 ii. Explain what sessions are in PHP - 2 how they differ from cookies, - 2 Use of session in web applications. - 1 OR iii. Write a program to send email in PHP – 4 User interface in HTML - 1	5	
Q.2	i. process of exception handling in PHP - 2 What happens when an exception is thrown? – 1 Example – 2 ii. Explanation of how to create a custom exception class in PHP. - 1 Example – 2. advantages of using custom exceptions - 2	5		Q.5 i. Explain AJAX and its role in web development. - 2 How does AJAX differ from traditional page loading? - 2 List some key benefits of using AJAX in web applications. - 1 ii. Explain the process of an AJAX request and response cycle. - 2	5
OR	iii. PHP filters are and their purpose in web applications - 2 Difference between validation and sanitization-1. Examples of common filters available in PHP - 1 three different types of filters-1	5		Describe the functions of XMLHttpRequest in AJAX - 2 Stages involved from sending a request to receiving a response from the server. - 1 OR iii. Explain the basics of jQuery syntax. - 1 Describe different types of jQuery selectors - 2 Examples of how each selector can be used to access elements in the HTML. - 2	5
Q.3	i. Advantages file and directory operations in PHP. – 1 Provide examples for Opening & Closing a File, Copying a File, Renaming & Deleting a File, Read & Write data from a File. -4 ii. Explanation – 3	5		Q.6 i. Explain the process of integrating PHP, AJAX, and jQuery with a MySQL database. – 2.5 Describe how each component interacts with the others in a dynamic web application, detailing the role of PHP, AJAX, and jQuery. – 2.5 ii. Explanation – 3 Program - 2	5

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- iii. Describe how PHP forms can be integrated with a MySQL database **5**
using sessions. – 2.5
importance of sessions in maintaining user state and security – 2.5

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