

Dr. Babasaheb Ambedkar Open University
Term End Examination July – 2026

Course	: BCA	Date	: 13-07-2026
Subject Code	: BCAMA-403	Time	: 03:00pm to 05.15pm
Subject Name	: Web Technology using FOSS-LAMP	Duration	: 02.15 Hours
		Max. Marks	: 70

Section A

Answer the following (Attempt any three) (30)

1. What is Open-Source Software? Explain the philosophy behind it. Also describe advantages and disadvantages of using open-source software.
2. Explain the basic data types supported by MySQL. Categorize and provide a brief description of Numeric, Date/Time, and String data types.
3. Discuss the role of PHP as a server-side scripting language. Explain its key characteristics and the three main uses of PHP in web development.
4. What is a PHP Session? Describe the process of starting a session, retrieving session variable values, and destroying session data with appropriate code examples.
5. Explain the various file modes used in the fopen() function. How to perform file I/O operations in PHP state with example?

Section B

Answer the following (Attempt any four) (20)

1. How do you manage users and groups in a Linux environment? Explain the useradd, userdel, and groupadd commands.
2. Explain the file permission structure in Linux and how to modify permissions using the chmod command.
3. Differentiate between the GET and POST methods used in PHP for collecting form data.
4. Explain the concept of an Associative Array in PHP. How does it differ from an indexed array?
5. Discuss the different types of Joins in SQL with a brief detail of their functionality.
6. What is the purpose of try, throw, and catch in PHP exception handling? Explain with example.

Section C

Part – A (Multiple Choice Questions) (10)

1. Which license generally governs Open-Source Software?
A. Proprietary B. GNU General Public Licence
C. Windows License D. None of the above
2. Which function is used to check if a file exists in PHP?
A. fopen() B. fileexists()
C. readfile() D. fopen()
3. What is the default starting index of a numeric array in PHP?
A. 1 B. -1
C. 0 D. 10
4. Which symbol is used to start a variable name in PHP?
A. @ B. #
C. \$ D. &
5. Which SQL command is used to save changes permanently to the database?
A. ROLLBACK B. SAVEPOINT
C. COMMIT D. RELEASE

- Which join returns only records that have matching values in both tables?
 - Left Join
 - Right Join
 - Inner Join
 - Full Join
- Which function is used to calculate the square root of a number in PHP?
 - pow()
 - sqrt()
 - abs()
 - round()
- Which superglobal variable is used to collect form data sent with the POST method?
 - \$_GET
 - \$_REQUEST
 - \$_POST
 - \$_SESSION
- Which keyword is used to terminate a loop in PHP?
 - continue
 - break
 - exit
 - return
- Which command in Linux is used to search for a file?
 - look
 - search
 - find
 - locate

Part - B (Do as Directed)

(10)

1. Linux is an open-source operating system. (True/False)
2. The include statement produces a fatal error if the file is missing. (True/False)
3. What is the full form of PHP?
4. The array_merge() function is used to join two or more arrays.
5. _____ mode in fopen() opens a file for reading only. (True/False)
6. Write the full form of SQL.
7. A cookie can store a maximum of 4KB of data. (True/False)
8. The _____ function must be called before any HTML output.
9. What is the full form of LAMP?
10. S3 is an object-oriented programming system in R. (True/False)

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