

Dr. Babasaheb Ambedkar Open University, Ahmedabad

Term-End Examination : January-2026

Course Name : MSCIT

Date : 22-02-2026

Subject Name : Web Application Development – LAMP

Time : 11:30AM TO 01:45PM

Subject Code : MSCIT-202

Max Marks : 70

Section A

Q.-1. Answer the following. (Attempt any three) (30)

- (1) Provide a detailed comparison between Open-Source and Closed-Source Software, including examples of each.
- (2) Describe how file permissions work in Linux. Discuss the differences between character symbols and Symbolic Mode (Numeric) for modifying permissions.
- (3) Compare and contrast the four looping statements in PHP: while, do-while, for, and foreach.
- (4) Explain the concepts of Cookies and Sessions in PHP, including their anatomy, creation, and how to destroy them.
- (5) Describe the complete process of connecting PHP with a MySQL database and performing CRUD (Insert, Update, Delete, Retrieve) operations.

Section B

Q.-2. Write short notes on any four of the following topics. (20)

- (1) What are Variable Scopes in PHP? Explain Local vs. Global.
- (2) Explain the difference between include() and require() functions.
- (3) Short note on PHP Math functions: rand(), round(), and sqrt().
- (4) What is the difference between single-quoted and double-quoted strings in PHP?
- (5) Explain basic PHP File I/O functions: fopen(), fwrite(), and fclose().
- (6) What is the difference between mysqli_fetch_row() and mysqli_fetch_assoc()?

Section C

Q.-3. Tick (✓) the correct alternative. (10)

(1) In Linux file permissions, what does the character 'x' represent?

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|------------|-----------|
| A) Read | B) Write |
| C) Execute | D) Delete |

(2) Who introduced the relational database model that RDBMS is based on?

- | | |
|-------------------|--------------|
| A) Rasmus Lerdorf | B) E.F. Codd |
| C) IBM | D) Oracle |

(3) Which PHP function is powered by the Zend Engine?

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|----------|-----------------------------|
| A) HTML | B) Standard PHP Interpreter |
| C) MySQL | D) Linux |

(4) Which function is used to define a constant in PHP?

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|-------------|---------------|
| A) define() | B) constant() |
| C) set() | D) var() |

(5) What is the default numeric index of the first element in a PHP array?

- | | |
|------|---------|
| A) 1 | B) -1 |
| C) 0 | D) NULL |

(6) Which HTTP method sends form data as part of the URL?

- | | |
|------------|--------|
| A) POST | B) GET |
| C) REQUEST | D) PUT |

(7) What is the maximum size of a cookie that the web server can store on the client computer?

- A) 2KB
- B) 4KB
- C) 8KB
- D) 1MB

(8) Which PHP function is used to open a file for reading or writing?

- A) fread()
- B) fopen()
- C) fwrite()
- D) fclose()

(9) In Regular Expressions, which metacharacter matches the beginning of a string?

- A) \$
- B) .
- C) ^
- D) *

(10) Which function is used to remove an individual item from a session?

- A) session_destroy()
- B) unset()
- C) session_end()
- D) remove()

Section D

Q.-4. State whether the following statements are true or false. (10)

- (1) Closed-source software typically provides public access to its source code.
- (2) A process with a 'nice' value of -20 has the lowest possible priority in a Linux system.
- (3) The TRUNCATE command is a Data Definition Language (DDL) operation used to remove all records from a table.
- (4) The COMMIT statement is used to permanently save changes made during a transaction to the database.
- (5) An INNER JOIN returns only those records that have matching values in both joined tables.
- (6) The print statement is generally faster than echo in PHP because it returns a status.
- (7) A PHP do...while loop is guaranteed to execute its block of code at least once.
- (8) The GET method sends form data as part of the URL, making it visible to everyone.
- (9) Cookies are small text files with a maximum size of 4KB stored on the web server.
- (10) mysqli_connect() returns an object on success and False on failure when establishing a database connection.
