



35027-44342



BRAINWARE UNIVERSITY

Library
Brainware University
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Term End Examination 2025-2026
Programme – BCA-Hons-2024/BCA-Hons-2025
Course Name – Database Management System
Course Code - BCA27103 (T)
(Semester II)

Full Marks : 40

Time : 2:0 Hours

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

Group-A

(Multiple Choice Type Question)

1 x 10=10

1. Choose the correct alternative from the following :

- (i) Which of the following levels of abstraction involves the view of data?
 - a) Physical level
 - b) External level
 - c) Conceptual level
 - d) None of these
- (ii) Select the relational algebra operation that merges tuples from two relations based on matching attribute values.
 - a) Union
 - b) Selection
 - c) Join
 - d) Division
- (iii) Which of the following command is used to change the data type of a column in SQL?
 - a) MODIFY TABLE
 - b) CHANGE TABLE
 - c) ALTER TABLE
 - d) UPDATE TABLE
- (iv) Identify the correct SQL queries that represent an example of a nested query.
 - a) SELECT name FROM students;
 - b) SELECT name FROM students WHERE age > 18;
 - c) SELECT name FROM students WHERE age = (SELECT MAX(age) FROM students);
 - d) SELECT name, age FROM students ORDER BY age;
- (v) Identify the correct relational algebra operation that is used to retrieve specific columns from a relation.
 - a) Project
 - b) Select
 - c) Join
 - d) Division
- (vi) The COUNT(*) function return _____.
 - a) The total number of non-null values in a column.
 - b) The total number of distinct values in a column.
 - c) The total number of rows in a table, including duplicates and nulls.
 - d) The total sum of numeric values in a column.
- (vii) A relation is considered to be in second normal form if it is in first normal form and it has no _____ dependencies.

OR

Write briefly with example: i) super key, ii) foreign key, iii) candidate key.

(5)

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