# Question Paper - 75 Marks

Time: \_\_\_\_ Max Marks: 75

Name: \_\_\_\_\_\_\_\_\_\_ Reg No: \_\_\_\_

## Section A: One mark questions

A1. Choose the correct option: (1 × 5)

1. Which of the following is correct about " column\_name IS NOT NULL checks if the value in the specified column is not NULL"?

A.  column\_name IS NOT NULL checks if the value in the specified column is not NULL

B. Not related to  column\_name IS NOT NULL checks if the value in the specified column is not NULL

C. Partially related to  column\_name IS NOT NULL checks if the value in the specified column is not NULL

D. None of the above

2. Which of the following is correct about "C language 3 Nick"?

A. C language 3 Nick

B. Not related to C language 3 Nick

C. Partially related to C language 3 Nick

D. None of the above

3. Which of the following is correct about "First Normal Form is defined in the definition of relations (tables) itself."?

A. First Normal Form is defined in the definition of relations (tables) itself.

B. Not related to First Normal Form is defined in the definition of relations (tables) itself.

C. Partially related to First Normal Form is defined in the definition of relations (tables) itself.

D. None of the above

4. Which of the following is correct about " A lossless decomposition ensures that you can recover the original relation by joining the"?

A.  A lossless decomposition ensures that you can recover the original relation by joining the

B. Not related to  A lossless decomposition ensures that you can recover the original relation by joining the

C. Partially related to  A lossless decomposition ensures that you can recover the original relation by joining the

D. None of the above

5. Which of the following is correct about "functional dependency helps in improving the quality of data in database."?

A. functional dependency helps in improving the quality of data in database.

B. Not related to functional dependency helps in improving the quality of data in database.

C. Partially related to functional dependency helps in improving the quality of data in database.

D. None of the above

A2. Fill in the blanks: (1 × 5)

1. \_\_\_ of keys:

2. \_\_\_ are the terminologies that a person should be familiar with before designing a

3. \_\_\_ WHERE clause as:

4. \_\_\_.

5. \_\_\_ primary key, foreign key. Data are stored in the form of files which is unstructured in nature

## Section B: Two mark questions

1. Define / Explain briefly: It is the first key used to identify one and only one instance of an entity uniquely. An entity (2)

2. Define / Explain briefly: the names of all students who live within a particular postal-code area. (2)

3. Define / Explain briefly: CREATE (column1 data\_type, column2 (2)

4. Define / Explain briefly: made are rolled back using rollback operation to bring the database to its last saved state. (2)

5. Define / Explain briefly: Data consistency and integrity must be maintained. (2)

## Section C: Five mark questions (Answer either-or)

1. a) Explain in detail (5m): UPDATING (5)  
 OR  
 b) Explain in detail (5m): Keys play an important role in the relational database. It is used to uniquely identify any record (5)

2. a) Explain in detail (5m): Each cell represents a single value. (5)  
 OR  
 b) Explain in detail (5m): ALTER TABLE table\_name ADD column\_name datatype; (5)

3. a) Explain in detail (5m): the sub query produces any rows, making it efficient for conditional checks. This operator is (5)  
 OR  
 b) Explain in detail (5m): Physical level (or Internal View / Schema): (5)

4. a) Explain in detail (5m): column1 datatype, (5)  
 OR  
 b) Explain in detail (5m): DATABASE DESIGN PROCESS (5)

5. a) Explain in detail (5m): The advent of the Internet led to exponential growth of the database industry. (5)  
 OR  
 b) Explain in detail (5m): Because of its complexity and functionality, it uses large amount of memory. It also (5)

## Section D: Ten mark questions

1. Discuss in detail (10m): Relational Languages: The Tuple Relational Calculus - The Domain Relational Calculus - (10)

2. Discuss in detail (10m): Ingres used a query language known as QUEL, and it led to the creation of systems (10)

3. Discuss in detail (10m): TRANSACTIONS (10)

4. Discuss in detail (10m): world enterprise that is being modelled. (10)

5. Discuss in detail (10m): Two major relational database system prototypes were created between the years 1974 (10)