

SYBSCIT sem III Reg & A.T.K.T. Exam Oct-2019.

09/10/19.

**S.Y.B.Sc IT  
SEMESTER III  
DATABASE MANAGEMENT SYSTEM**



TIME: 2 ½ HOURS

MARKS: 75

N.B: ALL QUESTIONS ARE COMPUSORY  
FIGURES TO THE RIGHT INDICATE FULL MARKS.

**Q.1 ANSWER THE FOLLOWING (ANY THREE):** 15

- A) Explain the purpose of database system
- B) Describe the views of database
- C) Explain the Network database model
- D) Explain relational schemas with the help of example
- E) Describe Codd's rules (any five)
- F) Draw ER diagram for a bank

**Q.2 ANSWER THE FOLLOWING (ANY THREE):** 15

- A) Describe features of good relational database system
- B) Explain 1NF
- C) Explain Tuple relational calculus
- D) Explain the selection operation in relational algebra
- E) Explain the minus operation in relational algebra
- F) Describe integrity rules with regards to DBMS

**Q.3 ANSWER THE FOLLOWING (ANY THREE):** 15

- A) Explain various types of constrains
- B) Explain security in DBMS
- C) Describe delete and drop commands
- D) Explain the features of DDL
- E) Explain the AVG ( ) function
- F) Explain the MIN ( ) function

**Q.4 WRITE SHORT NOTES ON FOLLOWING (ANY THREE):** 15

- A) ACID property
- B) Locked based concurrency control
- C) Deadlock recovery
- D) Time stamping methods
- E) States of transaction
- F) Optimistic methods

**Q.5 WRITE SHORT NOTES ON FOLLOWING (ANY THREE):** 15

- A) Identifiers in PL/SQL
- B) Logical operator in PL/SQL
- C) Expressions in PL/SQL
- D) Functions in PL/SQL
- E) Triggers
- F) Exception handling in PL/SQL

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