

St. Joseph's College of Arts & Science (Autonomous) St. Joseph's College Road, Cuddalore – 607001 B.Sc Degree Examination APRIL - 2019

Reg. No

CS509 – RELATIONAL DATABASE MANAGEMENT SYSTEM
Time: 3 hrs Max Marks: 75

SECTION - A (5X5=25)

Answer any FIVE Questions

- 1. Explain in detail about Schemas.
- 2. Write about Database users.
- 3. Illustrate about Mapping constraints.
- 4. What is Generalization? Explain with example.
- 5. Discuss about Domain relational calculus.
- 6. Define and explain First Normal Form.
- 7. Explain about Foreign Key Constraints.
- 8. Discuss about DML operations.

SECTION - B (5X10=50)

Answer any FIVE Questions

- 9. What is Data independence? Explain its types.
- 10. Explain the disadvantages of file processing system.

- 11. Explain in detail about Types of Attributes in DBMS with example
- 12. Describe about E-R diagram in detail.
- 13. Write about Relational algebra in detail.
- 14. Discuss in detail about Fourth Normal Form.
- 15. Explain Integrity constraints with examples.
- 16. Discuss about Indexes and its types in SQL with example.



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Q5/10B/04-15

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St. Joseph's College of Arts & Science (Autonomous) St. Joseph's College Road, Cuddalore – 607001 CS509 - RELATIONAL DATA BASE MANAGEMENT SYSTEM Time: 3 hrs Max Marks:75

SECTION - A (5X5=25)

Answer any FIVE Questions

- 1. Explain the purpose of Database system.
- Explain about mapping constraints.
- Write notes on Tuple relational calculus.
- 4. Compare 3NF and BCNF.
- What are the set operations in SQL? Explain.
- Explain the role of Database Administrator.
- Write notes on Views.
- Explain the following
 - a. Natural Join
 - b. Outer join

SECTION - B (5X10=50)

Answer any FIVE Questions

- 9. Describe the overall database system structure with neat diagram.
- 10. Explain the structure of E-R diagram with example.

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- 11. What are the fundamental operations of Relational Algebra? Explain.
- 12. Describe the Fourth normal form.
- 13. Write notes on DDL and DML statements.
- 14. Explain about a. Numeric functions
 - b. Date functions
- 15. Explain in detail about the Integrity constraints with example.

QUL_16. Draw an E-R diagram for simple bank operations.



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CS509 - RELATIONAL DATABASE MANAGEMENT SYSTEM

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SECTION - A (5X5=25)

Answer any FIVE Questions

- l. Write notes on Data abstraction
- 2. Explain the following.
- a. Entity
- b. Attribute
- c. Primary Key
- 3. What are the Relational algebra additional operations? Explain.
- Explain Boyce-Codd Normal form.
- 6. Explain the following operators.

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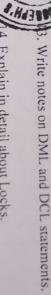
Write notes on Synonyms and Sequences.

- a. Union
- b. Cartesian product
- 7. Discuss about the Set operations in SQL.
- . Write notes on Multivalued dependency.

SECTION - B (5X10=50)

Answer any FIVE Questions

- 9. Discuss about
- a. Data model
- b. Database users
- 10. Explain the structure of E-R diagram with example
- 11. Explain Tuple relational calculus and Domain relational calculus.
- 12. Explain about Normalization with functional dependency.



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14. Explain in detail about Locks.

15. Explain the Third normal form with example

16. Draw an E-R diagram for a simple bank operation.

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St. Joseph's College of Arts & Science (Autonomous) St. Joseph's College Road, Cuddalore – 607001 B.Sc Degree Examination - NOV 2018

CS509 - RELATIONAL DATABASE MANAGEMENT SYSTEM
Time: 3 hrs Max Marks: 75

SECTION - A (5X5=25)

Answer any FIVE Questions

- 1. Write a short note on Database Manager.
- 2. Explain generalization with example.
- 3. Explain: a) Select Operation b) Union Operation
- 4. Explain Fourth Normal Form with examples.
- 5. Discuss the following: a) Indexes b) Clusters
- 6. Explain about Keys with example.
- 7. What is joins? Explain with example.
- 8. Write the formal definition of Domain relational calculus.

SECTION - B (5X10=50)

Answer any FIVE Questions

- 9. Discuss in detail about the Database Administrator.
- 10. Explain relationshipsand relationship sets with examples.

- 11. Explain the tuple relational calculus with suitable examples.
- Discuss Normalization using Multivalued Dependencies with examples.
- 13. Explain String Functions and Numeric functions.
- 14. Explain Instances and Schemas with Suitable examples.
- 15. Discuss about the relational algebra with example.
- 16. Explain the reducing E-R diagrams to tables with suitable Diagrams.



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St. Joseph's College of Arts & Science (Autonomous) St. Joseph's College Road, Cuddalore – 607001 B.Sc Degree Examination NOV 2021

CS509 – RELATIONAL DATABASE MANAGEMENT SYSTEM

Time: 3 hrs Max Marks: 75

SECTION - A (5X5=25)

Answer any FIVE Questions

- 1. Explain in detail about Purpose of database systems.
- 2. Write about Database manager.
- 3. Illustrate about Relationships and Relationship sets.
- 4. What is Aggregation? Explain with example.
- 5. Discuss about Tuple relational calculus.
- 6. Define and explain Third Normal Form.
- 7. Explain about Primary Key Constraints.
- 8. Discuss about DCL operations with example.

SECTION - B (5X10=50)

Answer any FIVE Questions

- 9. Describe about Data models in detail.
- 10. Explain about Overall system structure in DBMS.

- 11. Explain in detail about Entities and its types.
- 12. Explain mapping cordinalities with example.
- 13. Write about Relational algebra in detail.
- 14. Discuss in detail about Boyce Codd normal form.
- 15. Explain Integrity constraints with example.
- 16. Discuss about ten various DML operations in SQL with example.
