

S.No. 3241

16SCCCA4/16SCCIT9

(For candidates admitted from 2016–2021 Batch)

B.Sc./B.C.A DEGREE EXAMINATION,
NOVEMBER 2023.

Part III — Computer Application/Information
Technology – Major

DATABASE SYSTEMS

Time : Three hours

Maximum : 75 marks

PART A — ($10 \times 2 = 20$)

Answer ALL questions.

1. Mention the Two Levels of Data Independence.
2. What is the main purpose of File Manager?
3. What does a row in a table represents?
4. Define Strong Entity Set.
5. What is an Embedded DML?
6. What are called Aggregate Functions?
7. Define Entity Set.

8. What is meant by Disjoint Constraints?
9. Define 1NF.
10. Define Decomposition.

PART B — ($5 \times 5 = 25$)

Answer ALL questions, choosing either (a) or (b)

11. (a) Explain DML.
Or
(b) Discuss in detail about Database Users
12. (a) Write a note on Keys in Relational Database.
Or
(b) Describe in detail the Modification of the Database.
13. (a) Discuss in detail the SET operations in SQL.
Or
(b) Explain about Creating View.
14. (a) Explain Queries on several relations.
Or
(b) Illustrate the design issues in E-R Model.

15. (a) Discuss the Decomposition using Functional Dependency.

Or

- (b) Explain database design process.

PART C — ($3 \times 10 = 30$)

Answer any THREE questions.

16. Explain View of Data.
 17. Discuss in detail the fundamental operations performed in Relational Algebra.
 18. Explain the Nested Sub Queries of SQL.
 19. Discuss in detail the Domain Relational Calculus.
 20. Explain Decomposition using Multivalued Dependencies.
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