

48581

B.C.A. EXAMINATION, 2022

(Fifth Semester)

(2021-22 onwards)

DATA WAREHOUSING

BCA 19-53

Time : 3 Hours]

[Maximum Marks : 80

Note : Attempt all Sections.

Section A

Note : Attempt *twelve* questions of 1 mark each.

1. Explain the following :

12

- ☒ (i) Data marting
- ☒ (ii) Query Manager
- ☒ (iii) Clean and Transform
- ☒ (iv) Snowflake Schema

- (v) Starflake Schema
- (vi) Vertical Partitioning
- (vii) Query Generation
- (viii) System Manager
- (ix) Load Manager
- (x) Database Layout
- (xi) Server Hardware
- (xii) Client Hardware.

Section B

Note : Attempt *four* questions of 3 marks each.

1. Explain Extract and Load Process in detail.
2. Explain Fact Constellation Schema in detail.
3. Explain the concept of data transformation and load in detail.
4. Explain the concept of Parallel Technology in detail.

Section C

Note : Section C comprises of four questions of 6 marks each, one from each Unit. Each question shall have two alternatives, out of which student will be required to attempt *one* question.

Unit I

1. Explain the concept of Query Management Process in detail.

Or

Explain the concept of Backup and Archive Process in detail.

Unit II

2. What is Aggregations ? Explain the need of Aggregation in detail.

Or

What do you mean by Designing Fact tables ?
Explain through suitable examples.

Unit III

3. What is Data Marting ? Explain the need of Data Mart in detail.

Or

Explain Metadata and tools in detail.

Unit IV

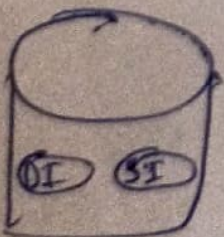
4. Explain Disk Technology in detail.

Or

Explain the concept of File Systems in detail.

Section D

Note : Section D comprises of four questions of 8 marks each, one from each Unit. Each question shall have two alternatives, out of which student will be required to attempt *one* question.



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Unit I

1. What is a data warehouse ? Also explain the various challenges faced during the construction of data warehouse in detail.

Or

Explain the Data Warehouse Delivery Methods in detail.

Unit II

2. Explain the concept of Query Redirection in detail.

Or

Explain the concept of designing summary tables in detail.

Unit III

3. What is Process Managers ? Explain the need of tools to manage data warehouse in detail.

Or

Explain the concept of Design and Cost of Data Mart in detail.

Unit IV

4. What do you mean by Operating Data Warehouse ? Explain Day to Day operations of data warehouse in detail.

Or

Explain the Backup Strategies and Disaster Recovery in detail.

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