

[Total No. of Questions - 9] [Total No. of Printed Pages - 2]
(2124)

1798

MCA 5th Semester Examination
Data Warehousing and Data Mining
MCA-E51

Time : 3 Hours

Max. Marks : 60

The candidates shall limit their answers precisely within the answer-book (40 pages) issued to them and no supplementary/continuation sheet will be issued.

Note : Candidates are required to attempt five questions in all selecting one question from each of the SECTIONS A, B, C, D of the question paper and all the subparts of the questions in SECTION E. All questions carry equal marks.

SECTION - A

1. Explain XML schema design in detail and compare it with ER schema based design. (12)
2. Explain the following:
 - (i) Data Staging and ETL.
 - (ii) Data Mart Design Phases. (6+6=12)

SECTION - B

3. (i) Differentiate between MOLAP, HOLAP and ROLAP systems.
(ii) Write short note on metadata. (8+4=12)
4. Explain data warehouse architecture in detail. (12)

[P.T.O.]

SECTION - C

5. (i) What are the database architectures for parallel processing?
(ii) Explain Star Schema. (6+6=12)
6. Write note on the need and guidelines of OLAP. Explain the categorization of OLAP. (12)

SECTION - D

7. Write a note on decision trees. 12
8. Write short notes on:
(i) Neural Networks.
(ii) Rule Induction-uses and evaluation. (6+6=12)

SECTION - E

9. Define the following:
(i) Sourcing.
(ii) Genetic Algorithms.
(iii) Nearest Neighbor and Clustering.
(iv) Dirty Data.
(v) Data Marts.
(vi) Prism Solutions. (2×6=12)
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