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Question Paper Code : 75515

5 Year M.Sc. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2013.

Elective

Software Engineering

XCS 011 — DATA MINING AND DATA WAREHOUSING

(Common to 5 year M.Sc. Information Technology/M.Sc. Computer Technology)

(Regulation 2003)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. Define data mining.
2. Comment on self learning computer systems.
3. What are the steps involved in Knowledge Discovery process?
4. Define OLAP.
5. Differentiate horizontal and vertical partitioning strategy.
6. What is RAID?
7. Describe about views.
8. Define types of H/W architecture used as server platforms in data warehouse solutions.
9. Define three levels of testing DWH.
10. Brief about passive and active monitoring tools.

PART B — (5 × 16 = 80 marks)

11. (a) Explain the data mining functionalities in detail. (16)

Or

- (b) (i) List down the applications of Data mining in Marketing. (10)
(ii) Differentiate Data mining and Query tools. (6)

12. (a) Explain about Decision trees and Association Rule mining techniques.(16)

Or

(b) (i) Explain about the Data cleaning process. (8)

(ii) Write short note on Neural network classifier. (8)

13. (a) (i) Explain the steps in Designing Summary tables in aggregation. (8)

(ii) Explain about DWH architecture. (8)

Or

(b) (i) Explain three different Datawarehouse Process managers. (8)

(ii) Briefly explain the steps involved in Starflake schema with example. (8)

14. (a) (i) What is Parallel query? How does Parallel query works? (8)

(ii) What are the factors affecting security of DWH? (8)

Or

(b) (i) What are the operations possible in DWH? Explain in detail. (8)

(ii) Explain Backup strategies in DWH environment. (8)

15. (a) (i) Explain Tuning Queries. (8)

(ii) Develop the Test plan for DWH. (8)

Or

(b) Explain the Capacity Planning for DWH. (16)