

Jul.-23-0213

CS-605 (Data Mining and Data Warehousing)
B.Tech. 6th (CBCS)

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 : Attempt five Questions in all. Selecting One Question from each section A, B, C and D. Section E is Compulsory.

SECTION - A

1. What do you understand by data warehouse? Explain along with its architecture. (10)
2. Differentiate between OLAP and OLTP with respective examples. (10)

SECTION - B

3. What is data warehouse schema? Mention and explain its types for multi-dimensional tables. (10)
4. Mention and explain data warehouse tools for query and reporting. (10)

SECTION - C

5. Write a note on genetic algorithm and support vector machine. (10)
6. Explain in detail all the steps involved in KDD. (10)

SECTION - D

7. How is data mining related to World Wide Web? Explain. (10)

8. Write a note on relational, transactional and multidimensional data. Also contrast the features of temporal mining and spatial mining. (10)

SECTION - E (Compulsory)

9. (i) Differentiate between data mining and DBMS.
- (ii) What is MOLAP, ROLAP and HOLAP?
- (iii) What is backup and recovery in data warehouse?
- (iv) Explain time variant data.
- (v) Explain web mining.
- (vi) What is the basic concept of neural networks?
- (vii) What is fact table?
- (viii) What is Meta data repository?
- (ix) What is 6 step data mining process?
- (x) What do you understand by association rule mining? (10×2=20)