



Code No. : 5261/N/M

FACULTY OF ENGINEERING
B.E. 4/4 (CSE) II Semester (Main) Examination, May/June 2012
DATA MINING

Time : 3 Hours]

[Max. Marks : 75

Note : Answer **all** questions from Part A.
Answer **any five** questions from Part B.

PART – A

(25 Marks)

1. Define the term Data Mining. 3
2. What are the different classes of Data Mining System ? 2
3. Define Data mart. 2
4. What is Z-score normalization ? 2
5. Write short notes on concept hierarchy. 3
6. What is Apriori principle ? 2
7. Define multilevel association rule. 2
8. Differentiate classification and prediction. 3
9. What is Bayesian Belief networks ? 3
10. What is web mining ? 3

PART – B

(50 Marks)

11. a) What are the major issues in data mining ? 5
b) Explain OLAP operations. 5
12. a) What is need of preprocessing ? Explain data reduction and data cleaning. 7
b) Write short notes on A-three-tier datawarehouse architecture. 3
13. Explain data mining task primitives. 10



- 14. a) Explain methods of attribute analysis. 6
- b) Write algorithm for attribute oriented Induction. 4
- 15. Use Apriori algorithm for following transaction data base with minimum support count 2. 10

TID	List of item – IDS
T ₁₀₀	I ₁ , I ₂ , I ₅
T ₂₀₀	I ₂ , I ₄
T ₃₀₀	I ₂ , I ₃
T ₄₀₀	I ₁ , I ₂ , I ₄
T ₅₀₀	I ₁ , I ₃
T ₆₀₀	I ₂ , I ₃
T ₇₀₀	I ₁ , I ₃
T ₈₀₀	I ₁ , I ₂ , I ₃ , I ₅
T ₉₀₀	I ₁ , I ₂ , I ₃

- 16. Explain decision tree induction with an example. 10
- 17. Explain k-means algorithm with an example. 10