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
