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P.E.S. College of Engineering, Mandya - 571 401
(An Autonomous Institution affiliated to VTU, Belgaum)
Sixth Semester, B.E. - Computer Science and Engineering
Semester End Examination; June/July - 2015
Data Warehousing and Data Mining

Time: 3 hrs

Max. Marks: 100

Note: Answer any FIVE full questions, selecting at least TWO full questions from each part.

PART - A

- 1 a. What is ETL? Discuss the issues that are resolved on successful implementation of an ETL. 10
- b. List and explain the general guidelines that can assist in successful implementation of a data warehouse. 10
- 2 a. Discuss the FASMI characteristics of OLAP system. 10
- b. Explain the common operations that can be applied to data cubes. 10
- 3 a. Define the data mining. Discuss the different challenges of data mining. 10
- b. Explain the different data preprocessing techniques in data mining. 10
- 4 a. Define the following : i) Item set ii) Support count iii) Confidence 10
- iv) Association Rule v) Cosine Similarity
- b. Discuss the generation of frequent item set in Apriori algorithm with example. 10

PART - B

- 5 a. What is a decision tree? Write and explain Hunt's algorithm for decision tree Induction. 10
- b. Explain the nearest neighbor classification technique giving its algorithm. List its characteristics. 10
- 6 a. State and explain Baye's theorem. Discuss how Baye's theorem can be used for classification. 10
- b. Explain the methods for the accuracy of classification methods. 10
- 7 a. What is rule based classifier? Explain how a rule based classifiers works. 10
- b. With an example, explain agglomerative hierarchical clustering algorithm. 10
- 8 a. What is web mining? Explain the different categories of web mining with examples. 10
- b. Write short note on : 10
- i) Spatial data mining
- ii) Text-data mining