Code No: M0522 JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B. Tech IV Year I Semester Examinations, March - 2017 DATA WAREHOUSING AND DATA MINING (Computer Science and Engineering) Time: 3 Hours **** ***

Max. Marks: 80

Answer any Five Questions

| | All Questions Carry Equal Marks | **** |
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| | 1.a) Explain the process of knowledge discovery in databases with necessary diagram. b) Discuss principle component analysis as a preprocessing activity. c) How to handle missing values? | AFF |
| , | 2.a) Define data warehouse. Compare and contrast data warehouse with operational database system. | |
| | 3.a) Explain designing graphical user interface based on data mining query language. b) Discuss the DMQL syntax for task relevant data and visualization. [8+8] | K * 6 F |
| | 4.a) Differentiate between characterization and analytical characterization. Quote suitable examples. b): How to use box-plot summary for measuring the data dispersion? c) What is a scatter plot? What is meant by loess curve? | **** * * * * * * * * * * * * * * * * * |
| | 5.a) What is a FP-tree? What is its significance in association rule mining? Explain with an example data set. b) Discuss Association rule clustering system for mining quantitative association rules from relational database. | **** |
| | 6.a) How to Baye's theorem is used for classification? Explain in detail. b) What are the measures for classifier's accuracy? c) Discuss the classification process. Compare it with prediction. [16] | ****** ******************************* |
| | 7.a) Discuss the similarity measures used in clustering. b) Explain the merits and demerits of partitioning methods. [8+8] | **** * * * * * * |
| | 8.a) Explain the utilization of latent semantic indexing in text mining. b) Give the algorithm for web structure mining. c)What will be content of spatial data cube? ooOoo | **** |
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