## **Subject: Data Mining and Business Intelligence**

- 1. Explain web mining using example.
- Explain Hadoop architecture using figure.
- Explain mapreduce. Explain any example using mapreduce.
- 4. Explain big data and big data analytics. Explain key roles and their responsibilities for successful analytic project.
- 5. Explain text mining using example.
- 6. How data Mining is useful for Business Intelligence applications viz.Balanced Scorecard, Fraud Detection, Clickstream Mining, Market Segmentation, retail industry, telecommunications industry, banking & finance and CRM
- 7. Explain Spatial mining using example.
- 8. Explain Mining Multiple-Level Association Rules using example.
- 9. Differentiate between Overfitting and Tree Pruning w.r.to following parameters. i). definition figure ii). use in particular situation 03 iii). Limitation
- 10. Explain KDD process using figure.
- 11. Do feature wise comparison between BI and DW.
- 12. Explain research issues in Data Mining.
- 13. Enlist the preprocessing steps with example. Explain procedure of any technique of preprocessing.
- 14. Do feature wise comparison between ROLAP and MOLAP.
- 15. Explain schemas: Stars, snowflakes and fact constellations using figures.
- 16. Explain various features of Data Warehouse?
- 17. Differentiate between Operational Database System and Data Warehouse 18. What is Concept Hierarchy? List and briefly explain types of Concept Hierarchy 19. Explain Mean, Median, Mode, Variance, Standard Deviation & five number summary with suitable database example.
- 20. What is noise? Explain data smoothing methods as noise removal technique to divide given data into bins of size 3 by bin partition (equal frequency), by bin means, by bin medians and by bin boundaries. Consider the data: 10, 2, 19, 18, 20, 18, 25, 28, 22 21. Define data cube and explain 3 operations on it.
- 22. Define following terms: Data Mart, Enterprise Warehouse & Virtual Warehouse
- 23. Draw the topology of a multilayer, feed-forward Neural Network.
- 24. Explain Linear regression with example.
- 25. Explain the major issues in data mining
- 26. Briefly explain text mining
- 27. What is market basket analysis? Explain the two measures of rule interestingness: support and confidence

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- 28. What is Big Data? What is big data analytic? Explain the big data distributed file system.
- 29. Discuss various layers of multilayer feed-forward neural network with diagram.
- 30. What is apex cuboid? Discuss drill down and roll up operation with diagram. 31. Enlist data reduction strategies and explain any two.
- 32. Discuss attribute subset selection.
- 33. Can BI is used for DM? Or vice versa? Justify.
- 34. Draw and Explain Snowflakes and Fact constellations Schema.
- 35. Discuss Following: (i) Meta Data (ii) Virtual Warehouse
- 36. Describe Concept Hierarchy? List and briefly explain types of Concept Hierarchy
- 37. Define "clustering"? Mention any two applications of clustering. 38. Briefly explain Linear and Non-linear regression.
- 39. Apriori Algorithm. Example
- 40. In data pre-processing why we need data smoothing? Discuss data smoothing by Binning.