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Council for Technical Education and Vocational Training
Office of the Controller of Examinations
Sanothimi, Bhaktapur
Regular/Back Exam-2077, Chaitra

Program: Diploma in Computer/IT Engineering Full Marks: 80
Year/Part: III/II (2013, 2008) Pass Marks: 32
Subject: Data Mining & Warehousing(Elective-II) Time: 3 hrs

*Candidates are required to give their answers in their own words as far as practicable.
The figures in the margin indicate full marks.*

Attempt Any Eight questions.

1. Explain data mining. Describe the importance of data mining for social network. [4+6]
2. Write short notes on data warehousing. Describe the Architecture of data warehouse. [4+6]
3. Explain the star schemas, fact tables, dimension tables and dimension hierarchies of data warehouse with example. [10]
4. Differentiate between OLAP and OLTP. Explain the drill up and slice operation in data warehouse. [5+5]
5. Explain the partitioning, parallelism and compression in data warehouse. [10]
6. Define data warehouse construction process. Explain the ETL process in data warehouse. [5+5]
7. Explain the Neural Network in Data mining [10]
8. Explain the cluster analyses. Write down the steps to cluster the given data using k-means algorithm. [5+ 5]
9. Explain text mining and visual data mining. [5+5]
10. Write short notes on : (Any Two) [2x5=10]
 - a) Data mart
 - b) Privacy and security issues in data mining
 - c) Data manipulation language
 - d) Man square deviation

Good Luck !

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