Council for Technical Education and Vocational Training
Office of the Controller of Examinations
Sanothimi, Bhaktapur
Regular/Back Exam-2078/2079, Chaitra/Baishakh

Program: Diploma in Computer Engineering	Full Marks: 80
Year/ Part: III/II (2018 New)	Pass Marks: 32
Subject: Data Mining	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 Five Questions.

1. a) Define data mining with its functionalities. Mention important application of data mining. [5+3]

   b) What is fact constellation schemas? Explain star schema with its advantages and disadvantages. [8]

2. a) Describe data warehouse. Differentiate data warehouse with DBMS. [3+5]

   b) What are the important characteristics of OLTP Differentiate OLAP with OLTP [3+5]

3. a) What is clustering? Explain linear and Non-linear regression. [8]

   b) Define decision tree. Explain entropy and in formation gain in detail. [8]

4. a) What are the drawbacks of K-mean algorithm? Explain Agglomerative clustering in brief. [8]

   b) Explain DMQL with its syntax and example. [8]

5. a) What do you mean by slice and dice, drill up and drill down in multidimensional data? [8]

   b) Explain advance data mining with its important features. [8]

6. Write short notes on : **(Any Four)** [4x4=16]
   i) K-me doid algorithm
   ii) Deep Learning
   iii) Fp-growth Algorithm
   iv) MOLAP
   v) DMQL

Good Luck !