

Seat No: _____

Enrollment No: _____

PARUL UNIVERSITY
FACULTY OF ENGINEERING & TECHNOLOGY
M.Tech., Summer 2017-18 Examination

Semester: 2

Subject Code: 03205180

Subject Name: Data Mining & Warehousing

Date: 25-05-2018

Time: 02:00PM to 04:30PM

Total Marks: 60

Instructions:

1. All questions are compulsory.
2. Figures to the right indicate full marks.
3. Make suitable assumptions wherever necessary.
4. Start new question on new page.

Q.1 A) Explain KDD process with neat diagram. **(05)**

B) Major Issues in Data Mining **(05)**

C) State the differences between OLAP and OLTP. **(05)**

Q.2 Answer the following questions. (Attempt any three) (Each five mark) **(15)**

A) List out and describe the primitives for specifying a data mining task.

B) Describe how concept hierarchies are useful in data mining

C) Explain CLARA and CLARANS.

D) Explain the following terms.

(I) median (II)Data's modality (III)midrange

(IV) Five numbers summary (V) Entropy

Q.3 A) How can correlation between two attributes be measured? **(07)**

B) Give few techniques to improve the efficiency of Apriori algorithm. **(08)**

OR

B) Describe the method of generating frequent item sets without candidate generation. **(08)**

Q.4 A) Explain Association Rule Mining with types of Association Rules **(07)**

OR

A) Describe the different type of architectures for integration of a data mining system with database or data warehouse. **(07)**

B) Briefly outline the major steps of decision tree classification. Why tree pruning useful in decision tree induction? **(08)**