Seat No. : _____

AG-136

April-2015

B.Sc., Sem.-VI

Computer Science

Paper-COM-311

(Elective-Introduction to Data Warehousing and Mining)

Time : 3 Hours] **[Max. Marks : 70**

1. (A) Which are the data warehouse components ? Explain in detail. **8**

OR

Which are major distinguish features between OLTP-OLAP ?

(B) Explain architecture of data warehouse. **4**

OR

Explain difference between data warehousing & data mining in detail.

(C) Do as directed : **2**

(1) What is data cube ?

(2) What is main advantage of clustering ?

2. (A) Explain the difference between OLAP-OLTP. **7**

OR

What is ETL ? Explain in detail.

(B) List down major task in pre-processing. Explain any three in detail. **5**

OR

Explain data mining primitives and hierarchy generation.

(C) Do as directed : **2**

(1) What is granularity ?

(2) Who is inventor of definition of data warehousing ?

3. (A) Explain star schema & snow flake schema with details. **8**

OR

Explain any one data mining technique in detail.

(B) Explain why we need data mining in detail. **4**

OR

Why do we need data pre-processing ? Explain it in detail with list of data quality.

(C) Give the full form of the following : **2**

(1) What is independent data mart ?

(2) List down part of Data Warehouse Architecture.

4. (A) Explain multidimensional modeling in detail. **6**

OR

What is KDD ? Explain process in detail.

(B) Which are the qualities which need for set criteria in classification explain in detail ? **6**

OR

Why we need to create separate warehouse ? Explain each reason in detail.

(C) Do as directed : **2**

(1) What is dependent data mart ?

(2) List down techniques of data mining.

5. (A) Explain association rule mining in detail. **6**

OR

What is clustering ? Explain in detail.

(B) Explain data mining query language in detail. **6**

OR

What is decision tree ? Explain in detail.

(C) Do as directed : **2**

(1) Who is inventor of bayes theorem ?

(2) When decision tree algorithm has invented ?