M-190148

B.Tech. EXAMINATION, 2019

Semester VI (CBS)

DATA MINING AND DATA WAREHOUSING

CS-605

Time : 3 Hours   Maximum Marks : 60

The candidates shall limit their answers precisely within the answer-book (40 pages) issued to them and no supplementary/continuation sheet will be issued.

Note : Attempt *one* question from each Unit. Q. No. 9 is compulsory..

Unit I

1. Define Data Warehouse. Describe the 3-Tier data warehouse architecture with proper block diagram.   10

Or

2. Write down any *ten* differences between OLTP and OLAP.   10

Unit II

3. Define Metadata. Describe the various types of Metadata with suitable example.   10

Or

4. Define Warehouse Schema. Describe the various types of schema with suitable example and figure.   10

Unit III

5. Write down any *ten* differences between DBMS and Data Mining.   10

Or

6. Define Knowledge Discovery Database. Describe the various stages of Knowledge discovery database.   10

Unit IV

7. Define Genetic Algorithm. Discuss the salient features of the genetic algorithm.　　　　**10**

Or

8. Define Web Mining. Describe the various categories of web mining.　　　　**10**

9. (a) Fill in the blanks : (Each question carries 2 marks)

   (i) A aggregate function is...............if there is no constant bound on the storage size needed to describe a sub-aggregate.

   (ii) ....property says that any subset of a frequent set is a frequent set.

   (iii) Web content mining can be sub-categorized into two parts they are...............and...............

   (iv) ....is the data cleaning stage in KDD where unnecessary information is removed.

   (v) Web Usage Mining can be sub-categorized into two parts they are...............and...............

(b) Write short notes on the following (Each question carries 2 marks) :

   (i) Text Clustering

   (ii) SVM

   (iii) ROLAP

   (iv) HOLAP

   (v) Rough Set Theory.