18230(M)

B. Tech 6th Semester Examination

Data Mining & Data Warehousing (CBS)

CS-605

Time : 3 Hours   Max. 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. Question no. 9 is compulsory.

UNIT - I

1. Define Data Warehouse. Describe the key features, advantages and applications of data warehouse.   (10)

OR

2. Define OLAP engine. Explain the functionality of any three OLAP engines.   (10)

UNIT - II

3. Write down any five differences between Star Schema, Snowflake Schema and Fact Constellation.   (10)

OR

4. Explain the challenges and limitation in Data mining.   (10)

UNIT - III

5. Write down any ten differences between KDD and Data Mining.   (10)

OR

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6. What are the advantages and disadvantages of the decision tree approach over other approaches of data mining?   (10)

UNIT - IV

7. Define Neural Network. Describe the various applications of Neural Network.   (10)

OR

8. Discuss the underlying principles of the rough set theory.   (10)

UNIT - V

9. (I)   Fill in the blanks:- (Each question Carries 2 marks)

   (a) There are two types of Data Marts they are_____ &_____.

   (b) _____operation is concerned with switching from an aggregated to a more detailed level within the same classification hierarchy.

   (c) The fourth step of Knowledge discovery database is_____.   https://www.hptuonline.com

   (d) _____corresponds to the extension of the data mining approach to textual data.

   (e) The full form of SVM is _____.   (2×5=10)

   (II) Write a short note on following (Each question Carries 2 marks):-

   (a) Text Mining.

   (b) Web Mining.

   (c) MOLAP.

   (d) OLTP.

   (e) Distributed Data Warehouse.   (5×2=10)