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R-14

Code: 4G171

IV B.Tech. I Semester Supplementary Examinations August 2020

Data Warehousing and Mining

(Common to CSE & IT)

Max. Marks: 70

Time: 3 Hours

Answer *all five* units by choosing one question from each unit (5 x 14 = 70 Marks)

UNIT-I

1. a) Define Data Mining? Explain various Data Mining functionalities. 7M
- b) What are the alternative names for Data mining? How do you classify Data Mining Systems? 7M

OR

2. Explain the various methods for concept hierarchy generation for numerical data? Generate a concept hierarchy using 3-4-5 rule with an example. 14M

UNIT-II

3. a) Illustrate the concept of OLAP in Data Warehousing. 7M
- b) Compare the basic difference between data OLAP and OLTP. 7M

OR

4. a) What are the steps in Association Rule mining? Explain with examples. 7M
- b) Explain the various techniques to improve the efficiency of Apriori based mining. 7M

UNIT-III

5. a) Simplify the general approach for solving a classification problem. 7M
- b) Explain rule based classification techniques used in data mining 7M

OR

6. a) Write and explain Decision Tree Induction algorithm for classification. 7M
- b) Explain various Genetic operators used in classification process with example 7M

UNIT-IV

7. Explain the following Grid based clustering methods. 14M
 - a) STING
 - b) CLIQUE

OR

8. Explain different distance metrics used in clustering data points with ordinal, nominal, Boolean and mixed value attributes? List the measures used to evaluate the quality of clusters? 14M

UNIT-V

9. a) Illustrate the process of Automatic classification of web documents. 7M
- b) Outline about Information retrieval system in text mining. 7M

OR

10. a) Explain about sequential pattern mining. 7M
- b) Describe about Similarity search in time series analysis. 7M
