CT802 - Data Warehousing And Data Mining

P. Pages : 2

Time : Three Hours

GUG/W/18/2101

|| *1604* ||

Max. Marks : 80

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Notes : 1. All questions carry equal marks.

1. a) With the help of neat diagram explain the list of OLAP operators on multidimensional data. **8**

b) Write short notes on online analytical processing to multidimensional data Mining. **8**

OR

2. a) Define Data Warehouse along with its major features that distinguishes Data Warehouse from other data repository system. **8**

b) Explain how data cube allows data to be modeled and viewed in multidimensional with a suitable diagram of data cube. **8**

3. a) List and explain the steps involved in KDD. **8**

b) Explain in detail the list of other kinds of data that can be used for data mining. **8**

OR

4. a) What are the different Technologies from multiple domains incorporated in data mining. **8**

b) List and explain the kinds of applications that are targeted by the data mining. **8**

5. a) Write short notes on following of Data cleaning. **8**

i) Ways of handling missing values.

ii) Explain data smoothing techniques.

b) Algebra class has 10 students. Their grades in the last test are
{85, 90, 87, 93, 100, 53, 78, 85, 99, 82}
Calculate
i) Mean   ii) Median
iii) Variance   iv) Stander deviators **8**

OR

6. a) Write short note on overview of Data transformation strategies. **8**

b) Explain the following as data reduction strategies. **8**

i) Histogram.   ii) Sampling.

iii) Data cable Aggregation.

7. Solve the following using Apriori Algorithm Assume minimum support count = 3 **16**

Tid	Items purchased
T_1	Mango, Onion, Nintendo,Keychain, Eggs, Yo-yo
T_2	Doll, Onion, Nintendo, keychain, Eggs, Yo-yo
T_3	Mango, Apple, keychain, Eggs
T_4	Mango, Umbrella, corn, keychain, Yo-yo
T_5	Corn, Onion, keychain, Ice-cream, Eggs

Also generate association Rules from frequent itemset.

OR

8. a) List and explain issues regarding classification and prediction. **8**

b) Write short notes on association rule mining along with its types. **8**

9. a) Explain the terms. **8**

    i) Contextual Outliers.

    ii) Collective Outliers.

b) Explain the draw backs of k-means clustering algorithm that lead to k-medoid technique along with the algorithm of k-medoid. **8**

OR

10. a) List and explain Basic clustering methods. **8**

b) List and explain the requirements of clustering in data mining. **8**

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