

M. SC. (I.T.) SEM. – III (C.B.C.S. COURSE) (2015 COURSE) :
WINTER - 2017

SUBJECT: DATA WAREHOUSING AND DATA MINING

Day: Friday
Date: 22/12/2017

Time: 10.00 AM TO 01.00 PM
Max. Marks: 60

W-2017-0925

N. B.

- 1) Attempt any **FIVE QUESTIONS**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Draw neat diagram **WHEREVER** necessary.

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- Q.1** Explain Data Warehouse Vs Data Mart. List and explain the process or steps for building and loading a Data Warehouse. (12)
- Q.2** Apply the Apriori algorithm for discovering frequent item sets of the table given below: (12)

Trans ID	Items Purchased
101	Milk, bread, eggs
102	Milk, juice
103	Juice, butter
104	Milk, bread, eggs
105	Coffee, eggs
106	Coffee
107	Coffee, juice
108	Milk, bread, cookies, eggs
109	Cookies, butter
110	Milk, bread

Use 0.3 for the minimum support value.

- Q.3** a) Distinguish between online Transaction Processing (OLTP) and Online Analytical Processing (OLAP). (06)
- b) Describe the issues and challenges in the implementation of a Data warehouse (06)
- Q.4** What is a data Model? Explain the different types of data model with an example. (12)
- Q.5** What are the different operations that can be performed on OLAP system? (12)
- Q.6** What is KDD? What are the steps involved in the knowledge discovery process? (12)

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