## B.Tech. - VIEP - COMPUTER SCIENCE AND ENGINEERING (BTCSVI)

00486

## Term-End Examination December, 2014

## **BICS-020 : DATA WAREHOUSING AND MINING**

Tim	hours Maximum Marks: 70	
Not		Attempt any <b>seven</b> questions. Assume suitable missing data, if any. All questions carry equal marks.
1.	(a)	Explain data mining functionalities. 5
	(b)	Describe KDD process. 5
2.	(a)	Differentiate between Fact Constellation and Snow Flake schemas with example.
	(b)	What is dimension in a multi-dimensional data model? Explain data cube with suitable example. $2+3=5$
3.	(a)	What is concept hierarchy? How are concept hierarchies useful in OLAP? 2+3=6
	(b)	Explain the various OLAP operations with example.

4. Define Data Mart. (a) 5 (b) What are the various issues we need to consider during data integration? Explain each. 5 5. (a) What do you mean by Task-relevant data in the context of data mining? Explain. 5 (b) Why is it important to have a data mining query language? 5 6. (a) Generate frequent the itemset association using rules bv algorithm on the dataset given below with support 20% and confidence 60%: 7 TID **Items** 100 Bread Cheese Eggs Juice 200 Bread Cheese Juice 300 Bread Milk Yogurt 400 Bread Juice Milk 500 Cheese Juice Milk (b) Explain multilevel association rule mining. 3 **7.** (a) What. is decision a tree **Explain** ? classification by decision tree. 1+4=5(b) Mention the different criteria based on

can be evaluated.

which classification and prediction method

5

8.	(a)	Differentiate between classification and clustering techniques.	5
	(b)	Explain K-Means clustering technique.	5
9.	(a)	How do you develop a test plan for data warehouse? Explain.	5
	(b)	Describe the qualitative and quantitative attributes with suitable example.	5
10.	Write follow		10
	(a)	Metadata	
	(b)	Text mining	
	(c)	Data warehouse architecture	
	( <b>d</b> )	Data reduction	