01051

B. TECH. IN COMPUTER SCIENCE ENGINEERING (BTCSVI)

Term-End Examination
December, 2013

BICS-020: DATA WAREHOUSING AND MINING

Time: 3 Hours Maximum Marks: 70

Note: Attempt any seven questions. All questions carry equal marks. Assume suitable missing data, if any.

- 1. (a) Define data mining. Give some alternative 5 terms for it.
 - (b) What is KDD (Knowledge Discovery in Database)? What are the steps involved in KDD process?
- 2. (a) What is the use of knowledge base? 5
 (b) Define predictive model. Explain briefly the 5
 - (b) Define predictive model. Explain briefly the data mining tasks that belong to predictive model.
- 3. (a) How are association rules mined from large data bases?
 - (b) What is the classification of association rules based on various criteria?
- 4. What do you mean by cluster Analysis? What are the different types of data used for it and what are the typical requirements of clustering in data mining?

5.	(a) (b)	Describe Data classification. Write the preprocessing steps that may be applied to the data for classification and prediction.	5 5
6.	(a)	What is data mart? When is data mart	5
	(b)	appropriate? What are various forms of data processing?	5
7.	(a)	Explain briefly the significance of tuning the data warehouse.	5
	(b)	Explain the basic levels of testing a data warehouse.	5
8.	(a)	How are dimension tables designed?	5
	(b)	Discuss spatial data mining.	5
9.	(a)	Differentiate between the star schema and the snowflake schema. Which is popular in data warehouse design?	5
	(b)	What is meant by pattern?	5
10.	Write (a) (b) (c)	e short notes on any two : 5x2: Data mining applications. Hyper cubes. Smoothing techniques.	=10