Reg. No. :					

Question Paper Code: 41881

B.E. / B.Tech. DEGREE EXAMINATION, MAY 2017

Elective

Information Technology

14UIT921 - DATA MINING CONCEPTS AND TECHNIQUES

	(Regulatio	n 2014)					
Dι	Ouration: Three hours	Maximum: 100 Marks					
	Answer ALL	Questions					
	PART A - (10 x	1 = 10 Marks)					
1 Is a subject oriented Integrated, Time Variant, and No collection of data in support of management decision.							
	3	b) Data Warehousingd) Text mining					
2.	. The Data Warehouse is						
	•	b) Write Onlyd) None of these					
3 describes the data contained in the data warehouse.							
		b) Operational Datad) Informational Data					
4.	. Data can be updated in E	nvironment.					
5.	(c) Operational	b) Data Warehousingd) Informational					
	(a) A process to reject data from the	data warehouse and to create the necessary					

(b) A process to load the data in the data warehouse and to create the necessary

indexes

indexes

- (c) A process to upgrade the quality of data after it is moved into a data warehouse
- (d) A process to upgrade the quality of data before it is moved into a data warehouse
- 6. A goal of data mining includes which of the following?
 - (a) To explain some observed event or condition
 - (b) To confirm that data exists
 - (c) To analyze data for expected relationships
 - (d) To create a new data warehouse
- 7. A data warehouse is which of the following?
 - (a) Can be updated by end users
 - (b) Contains numerous naming conventions and formats
 - (c) Organized around important subject areas
 - (d) Contains only current data
- 8. Which of the following is a true statement about classification method in data mining?
 - (a) The objective is to provide an overall description of data, either in itself or in each class or concept
 - (b) T he main approaches in obtaining data description are data characterization and data Discrimination
 - (c) The purpose is to search for the most significant relationship across a large number of variables or attributes
 - (d) It is the process of finding models or functions that map records into one of several discrete prescribed classes
- 9. Which of the following is not a data mining method?
 - (a) Classification and prediction

(b) A priori algorithms

(c) Dependency analysis

(d) Data description

- 10. Management turnover, loss of market or license or supplier, shortages and labour problems are indications of what kind of problems?
 - (a) Fraud

(b) Control environment

(c) Going concern

(d) Cash flow

PART - B (5 x 2 = 10 Marks)

11.	Def	fine data warehouse.	
12.	Wr	ite the steps of KDD process.	
13.	Des	scribe the different classification of association rule mining.	
14.	Def	Fine smoothing.	
15.	Def	Fine spatial data mining.	
		PART - C (5 x $16 = 80 \text{ Marks}$)	
16.	(a)	Diagrammatically illustrate and discuss the data warehousing architecture briefly explain components of data warehouse.	with (16)
		Or	
	(b)	Explain OLAP and discuss about the following:	
		(i) Categories of OLAP tools	(10)
		(ii) OLAP Operation	(6)
17.	(a)	(i) Discuss the architecture of data mining system with a neat sketch.	(8)
		(ii) Explain data mining task primitives with example.	(8)
		Or	
	(b)	Explain preprocessing method in data mining.	(16)
18.	(a)	Explain bayesian classification in detail.	(16)
		Or	
	(b)	Write short notes on support vector machine and Lazy learners.	(16)
19.	(a)	(i) Explain the different types of data used in cluster Analysis.	(10)
		(ii) Discuss the use of outlier analysis.	(6)
		Or	
	(b)	Explain how data mining is used for retail Industry.	(16)

20. (a) Discuss about spatial mining and its algorithm with real time example. (16)

Or

(b) Explain the following mining in detail with real time example: (i) Web Mining (ii) Temporal mining. (16)