Fourth Semester B.C.A. Degree Examinations October / November 2019 (New Scheme - 2016-17 Batch)

BCD 430: DATA WAREHOUSING AND DATA MINING

Time	Time: 3 Hours Max		
I.	Ans	wer ALL questions:	5x1=5
1.	What is datawarehouse ?		
2.	What is Supervised learning?		
3.	State Apriori principle.		
4.	Expand OLTP.		
5.	What is Boosting?		
II.	Answer any <u>FIVE</u> of the following: 5x15=		
6.	a)	Explain the characteristics of data warehouse.	
	b)	Explain the two schemas of data warehouse.	
	c)	Explain Enterprise warehouse and virtual warehouse.	(5+5+5)
7.	a)	What is Data cube? Explain the features of OLAP.	
	b)	Explain Data cube operations.	
	c)	Differentiate between OLAP & OLTP.	(5+5+5)
8.	a)	Explain descriptive tasks in data mining.	
	b)	Explain motivating challenges in data mining.	
	c)	Explain machine learning techologies in data mining.	(5+5+5)
9.	a)	Explain the applications of data mining.	
	b)	What are the steps involved in data pre-processing for data min	ing? Explain.
	c)	Define frequent item set. Explain the steps in Apriori algorithm.	(5+5+5)

- 10. a) Illustrate the steps for Generating FP tree.
 - b) Illustrate rule generation with an example.
 - c) Define the following:
 - i) Itemset ii) Su
- ii) Support Count iii) Support
 - iv) Association Rule v) Frequent itemset (5+5+5)
- 11. a) Describe a decision tree with an example.
 - b) Explain general approach to solve classification problem.
 - c) Write a note on rule based classifiers.

(5+5+5)

- 12. a) Explain Bootstrap and Bagging methods in classification.
 - b) Explain evaluation criteria for classification methods.
 - c) Write a note on Multiclass problem. (5+5+5)

* * * *