Bachelor of Science (B.Sc.) (I.T.) Semester—VI Examination DATA MINING

Paper—4

Time	e : 7	Three Hours] [Maximum Marks	s : 50
N.B	. :—	(1) ALL questions are compulsory and carry equal marks.	
		(2) Draw neat and labelled diagram wherever necessary.	
	EIT	THER	
1.	(a)	Discuss the following:	5
		(i) HOLAP	
		(ii) ROLAP	
		(iii) MOLAP.	
		Discuss Optimal Frequent Itemset Mining algorithm in detail.	5
	OR		
	(c)	Write notes on the following:	5
2.		(i) Conciseness of Result	
	(1)	(ii) Sequential Rule.	~
		What do you mean by Association Rule Mining? Explain.	5
		 -	5
		What are the issues with the classification mining? Explain. Explain the following with respect to decision tree in data mining:	5 5
	(0)	(i) Best Split	3
		(ii) Splitting Criteria.	
	OR		
		What criteria is used for classification? Under what circumstances is classification	useful
	` /	in data mining ?	5
	(d)	Explain in detail decision tree algorithm.	5
	EIT	THER	
3.	(a)	What is clustering? How is simplicity measured in clustering?	5
	(b)	What is outlier? How is it detected? Explain.	5
	OR		
		What parameters are used to evaluate different algorithms used in clustering?	5
		Explain density based clustering with example.	5
		'HER	~
4.	(a)	Explain any one algorithm used to mine the special data.	5
		What do you mean by data stream? Explain with example.	5
	OR	What mining methods are used in time series data? Explain any one method.	5
	(c) (d)	Differentiate Text data, Web data and Multidimensional data.	5
5.	` /	empt ALL:	3
<i>J</i> .	(a)	Differentiate between DBMS and Data Mining.	21/2
	(b)	Explain Regression in Data Mining.	$\frac{21}{2}$
	(c)	Explain Horizontal method of classification.	$\frac{21}{2}$
	(d)	What is transactional data ? Explain.	21/2