DATA MINING

Tir	ne: T	hree hours Maximum: 75 marks
		$PART A - (10 \times 1 = 10 \text{ marks})$
		Answer ALL questions.
	Ch	oose the correct answer:
1.	Th	e FP-growth algorithm has phases.
	(a)	one (b) two
	(c)	three (d) four
2.	A	priori algorithm is otherwise called as
	(a)	width-wise algorithm
	(b)	level-wise algorithm
	(c)	pincer-search algorithm
	(d)	FP growth algorithm
3.	The	'Slice' operation deals with
	(a)	Selecting all but one dimension of the data cube
	(b)	Merging the cells along one dimension
	(c)	Merging cells of all but one dimension
	(d)	Selecting the cells of any one dimension of the data cube.

	is	data abou	t data.
(a)	Metadata	(b)	Microdata
(c)	Minidata	(d)	Multidata
use	d to label node	es in the tr	schema that will be ree and around which take place are
(a)	ordering	(b)	decision
(c)	splitting	(d)	Algorithm
Ove	erfitting occur	s when a m	odel
(a)	does fit in fi	iture state	S
(b)	does not fit	in future s	tates
(c)	does fit in c	urrent stat	e
(d)	does not fit	in current	state.
In	the center of a		n cluster is represented he cluster.
(a)	k-medoid	(b)	k-means
(c)	STIRR	(d)	RQCK
ati	distance i		ased on the maximum
(a)	Categorica	l data (b)	Chebychev
(c)	Euclidean	(d)	Manhattan
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9.		mining is concerned with discovering the model underlying the link structures of the web.		
		Data structure (b) Web structure		
	(c)			
10.	In	web mining, is used to know the er in which URLs tend to be accessed.		
		clustering		
	(b)	associations		
	(c)	sequential analysis		
	(d)	classification		
		PART B — $(5 \times 7 = 35 \text{ marks})$		
	Answ	er ALL questions, choosing either (a) or (b)		
		Explain the salient differences between the major data mining techniques.		
		Or		
	(b)	Describe the performance evaluation of algorithms.		
2.	(a)	What is OLAP? Explain.		
		\mathbf{Or}		
	(b)	Write down the guidelines for data warehouse implementation.		
3.	(a)	What kind of data is the decision tree method most suitable for? Explain.		

Or

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- (b) Explain the terms for bootstrapping, bagging and boosting for improving the accuracy of a classification method.
- 14. (a) What are the types of data? Give examples.

Or

- (b) Write down the desired features of cluster analysis.
- 15. (a) Explain about the web structure mining.

Or

(b) Discuss the advantages and disadvantages of the HITS algorithm.

 $PART C - (3 \times 10 = 30 \text{ marks})$

Answer any THREE questions.

- 16. Explain the six groups of data mining applications.
- 17. What are the main purposes of metadata? What properties should metadata have? Describe.
- 18. Discuss about the Naïve Bayes method
- 19. What are the various methods for computing distances between clusters? Explain.
- 20. What is web page? Explain the classification of web pages.