(07 Marks)

## Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages. 2. Any revealing of identification, appeal to evaluator and /or equations written eg. 42+8 = 50, will be treated as majoractice.

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## Seventh Semester B.E. Degree Examination, Dec. 2014/Jan. 2015 **Data Mining**

Time: 3 hrs.

Max. Marks:100

Note: Answer FIVE full questions, selecting atleast TWO questions from each part.

## PART - A

		PARI – A	
1	a.	What is data mining? Explain the process of knowledge discovery in databases (F	ZDD) - :4
		a neat diagram.	
	b.		(08 Marks)
		Explain the different challenges that motivated the development of dat technologies.	
	c.		(08 Marks)
	C.	Define and give examples for : i) Data set ii) Attribute.	(04 Marks)
2	a.	What is data and	
-	a.	What is data pre - processing? List and explain different steps involved in oprocessing.	data pre –
	b.		(10 Marks)
	0,	what is shifted the dissimilarity? Explain similarity and dissimilarity measure	es between
		simple attributes based on different types of attributers.	(10 Marks)
2			
3	a.	striction. Explain general approach for solving a classification problem	n.
	b.	Downloaded from A-ZShiksha.com	(08 Marks)
		The decision tice works, with all example.	(06 Marks)
	c.	Explain k – nearest neighbor classification algorithm.	(06 Marks)
i		Charles I i lico	58
4	a.	or premi different ways to reduce the computational complexity of freque	ent itemset
	1	generation.	(06 Marks)
	b.	. The same and so the complexity of an for allowing	(08 Marks)
	c.	Explain Brute - Force method for sondidate.	(06 Marks)
53		PART – B	
-2			
5	a.	Explain different properties of objective measures.	(06 Marks)
	b.	Explain how the FP tree is represented.	(08 Marks)
	c	Comprehend the Simpson's paradox	(06 Marks)
	1. 3		(vo marks)
6	a.	What is cluster analysis? List and explain different types of clusters.	(06 Marks)

5	a.	Explain different properties of objective measures.	(0.5 )
107	b.	Explain how the FP tree is represented.	(06 Marks)
	c.	Comprehend the Simpson's paradox.	(08 Marks)
	110	comprehend the Simpson's paradox.	(06 Marks)
6	•	What is always I i O X	7. 2.
U	a.	What is cluster analysis? List and explain different types of clusters.	(06 Marks)
	b.	write and explain Basic $-k$ – means algorithm.	(08 Marks)
	c.	Explain agglomerative hierarchical clustering.	(06 Marks)
7	0	Evoluin description	
,	a. b.	Explain descriptive mining of complex data objects.  Explain the following:	(08 Marks)
		i) Spatial data mining ii) Text mining.	(12 Marks)
8	a.	Name any five commercial data mining systems.	
	b.	Explain the social impact of data mining.	(05 Marks)
	C.	Write a note on data mining trends.	(08 Marks)
		the a note on data mining trends.	(07 Marks)