Tota	l No	o. of Questions : 10] SEAT No. :					
P39	975	5 [Total No. of Page	es : 2				
		B.E.(Computer Engineering)					
		DATA ANALYTICS					
		(2015 Pattern) (Semester - I) (410243)					
Time	21	[Max. Mark	s · 70				
		tions to the candidates:					
	<i>1)</i>	Answer Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6, Q.7 or Q.8, Q.9 or Q.10.					
	2)	Neat diagrams must be drawn wherever necessary.					
	3) 4)	Figures to the right side indicate full marks. Assume suitable data if necessary.					
	7)	21ssume suitable adda if necessary.					
Q1)	a)	What is big data? Explain 3V's of Big Data.	[5]				
21)							
	b)	Draw Data Analytics Lifecycle & give brief description about all pha	[5]				
		OR					
<i>Q2)</i>	a)	Write a case study on Global Innovation Network & Analysis (GINA	.).[5]				
	b)	Explain Null Hypothesis & Alternative Hypothesis.	[5]				
Q3)	a)	How Wilcoxon Rank-Sum Test works?	[5]				
Q 3)							
	b)	Explain Type 1 and Type 2 errors.					
		OR					
Q4)	a)	Write an Apriori Algorithm.	[5]				
	b)	Define following terms with example: Confidence and Lift.	[5]				
	,		. ,				
\	Q5) a) Explain following Decision Tree Algorithms:						
Q5)	Q5) a) Explain following Decision Tree Algorithms:						
		i) ID3 Algorithm					
		ii) C4.5					
		iii) CART					

How Naive Baye's classification works? Give its applications.

OR OR

b)

[8]

Q6)	a)	Exp	plain following terms:	[9]
		i)	Bagging	
		ii)	Boosting	
		iii)	Random forest	
	b)	Wha	hat is data visualization? Describe any four data visualiza	tion techniques.
				[8]
Q 7)	a)		hy is it difficult to visualize Big Data? Also explain analy ed in Big Data Visualization.	tical techniques [9]
	b)	Exp	plain various tools to visualize Big Data. (Any four)	[8]
			OR OR)
Q8)	a)	Wha	hat is Map-Reduce? Explain working of Map-Reduce w	vith example.[9]
	b)	G.	plain HDFS with respect to NameNode, DataNodumeNode with example.	les, Secondary [8]
		9	6.	
Q9)	a)	Exp	plain following terms:	[8]
~ /	ĺ	i)	Smoothing	
		ii)	Confusion matrix	
	b)		plain Data Visualization Tool - Tableau.	[8]
	,	1	OR	
Q 10	()a)	Exp	plain following terms ;	.[8]
Z -0,	, ,	i)	Key-value store	XXX
		ii)	Document store	
		iii)	Column family store	, 6.
		iv)		\$.
	b)	,	hy communication is important in data analytics lifecy	rle projects?[8]
	3)			