Total No. of Questions: 10]	8	SEAT No. :	
P3424		[Total No. of Pages	s : 2

[5670]-700 B.E. (Computer Engineering)

	Dill (Computer Lingmeering)	
	DATA ANALYTICS	
	(2015 Pattern) (Semester - I) (410243)	
<i>Time</i> : 2 ³	½ Hours] [Max. Marks	s :70
Instructi	ions to the candidates:	
1)	Answer Q.1 or Q.2, Q3 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)	Figures to the right side indicate full marks.	
<i>4</i>)	Assume suitable data; if necessary.	
0.71		r#3
Q1) a)	Draw and Explain Big Data Ecosystem.	[5]
b)	Explain current analytical architecture with diagram.	[5]
	OR	
Q2) a)	What is mean by Data conditioning and data visualization? Enlist to	ools
	used during data preparation phase.	[5]
b)	Write a case study: Global Innovation Network and Analysis.	[5]9
,		
Q3) a)	How k-means algorithm works?	ાકો
2 0) u) b)		[5]
U)	5.	
	OR	
Q4) a)	How association rules are helpful in developing business strategy?	[5]
b)	How to improve 'Apriori's efficiency?	[5]
Q 5) a)	Explain following decision the algorithms:	[9]
20) 00)	i) ID 3	[-]
	ii) C4.5	
	iii) CART	
b)	What is decision tree? Explain various terms used in Decision Tree.	[8]
	OR OR	

Q6)	a)	Explain "Bagging", "Boosting", and "Random Forest". [9		
	b)	Explain various tools to visualize Big Data (Any four)	[8]	
Q 7)	a)	Explain data visualization with respect to 1-D, 2-D and 3-D data.	[9]	
	b)	Why it is difficult to visualize big data?	[8]	
		OR		
Q 8)	a)	Explain working of Apache Hadoop with HDFS and Map Reduce.	[9]	
	b)		[8]	
		i) Pig ii) Hive		
		iii) HBase iv) Mahout		
Q9)	a)	Explain various use-cases of mapreduce for unstructured data.	[8]	
~ /	b) 5	9.	[8]	
	, ,	QR)		
<i>Q10</i>)a)	Explain following NOSOL databases:		
2	,,	i) Key value store	[8]	
		ii) Document store		
		iii) Column family store		
		iv) Graph database		
	b)		cal	
	0)	project?	[8]	
		0 0 0		
		What are the key outputs from each stake holder (any four) in analytic project?		
		28°.		
[567	70]-7	2		