SE.	Total No. of Questions : 8]	200	SE
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SEAT No.:		
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## [5461]-593

## B.E. (Computer Engineering) DATAANALYTICS

(2015 Pattern) (Semester-I) 410243

Time :	: 21/2	Hours] [Max. Mark	s:70
Instru	ction	ns to the candidates:	
	1)	Answer Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6, Q.7 or Q.8.	
	<i>2)</i>	Neat diagrams must be drawn wherever necessary.	
	<i>3)</i>	Figures to the right side indicate full marks.	
4	<i>4)</i>	Assume Suitable data if necessary.	
<i>Q1</i> ) :	a)	Explain Data Analytic Life cycle.	[8]
~ /	b)	When do we use Wilcoxon rank-sum test? Write steps in the test.	[6]
	c)	Explain linear regression with example.	[6]
	-)	OR	[-]
<i>Q2</i> ) a	a)	Compare BI Vs.Data science.	[6]
~	b)	Explain k-means clustering algorithm. What are its drawbacks?	[7]
	c)	Explain Apriori association rule mining algorithm.	[7]
·	•)	Explain profit association rate infining argoritams.	[']
<i>Q3</i> ) a	a)	Explain Bayes 'theorem. Explain Naive Bayes' classifier.	[8]
~	b)	Explain any three of classification performance measures.	[6]
(	c)	What is classification? List the different classifiers.	13]
	,		
		OR OR	
Q4) s	a)	What is decision tree? Explain how decision tree is constructed usi	ng
		ID3 algorithm.	[8]
1	b)	Explain the following:	[3]
		i) Conditional probability.	
		<ul><li>i) Conditional probability.</li><li>ii) Posterior probability.</li></ul>	
(	c)	Explain the following with their significance:	[6]
		i) Entropy	
		ii) Information gain	
		iii) Gain ratio	

Q5)	a)	What is data visualization? Explain any four data visualization Technique	es 9]
	b)	What are the challenges in Big data visualization? [8	<b>3</b> ]
Q6)	a)	Explain how data is visualization is done or visually represented, if data 1-D, if data 2-D and data is 3-Diamentional?	ta 6]
	b)	Explain Big data visualization tools in short (any four tools). [8]	<b>3</b> ]
	c)	Explain analytical techniques used in Big data visualization.	3]
<b>Q</b> 7)	a)	Explain use cases for analytics for unstructured data.	5]
	b)	Explain MapReduce paradigm with example. [6	6]
	c)	Explain Hadoop Distributed File System.  OR	5]
Q8)	a)		<b>8</b> ]
	b)	Give a brief review of the key outputs for each of the main any for stakeholders of an analytics project.	ır <b>1</b> ]
	c)	Give a brief review of the key outputs for each of the main any for stakeholders of an analytics project.  What are four major categories of NOSQL Tools (stores)?	¥