Total No. of Questions: 8]	80	SEAT No. :	7
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T.E. (Computer Engineering) Data Science and Big Data Analytics (2019 Pattern) (Semester - II) (310251)

(2019 Pattern) (Semester - 11) (310251)				
Time	$2:2^{1/2}$	[Ma	x. Marks: 70	
		ons to the candidates:		
	<i>1</i>)	Answer Q.1 or Q.2, Q3 or Q.4, Q.5 or Q.6, Q.7 or Q.8.		
	2)	Neat diagram must be drawn whenever necessary.		
	3)	Figures to the right indicate full marks.		
	<i>4</i>)	Assume suitable data if necessary.		
	<i>5</i>)	Use of Scientific Calculalor is permitted.		
Q1)	a)	What is Model Building elaborate this phase of data analyhelp of suitable example.	ytics with the [9]	
	b)	Explain any three sources of Big Data. Differentiate BI science.	versus Data [8]	
Q2)	a)	What are the three characteristic of Big Data and what consideration in processing Big Data.	are the main	
	b)	Explain Descriptive Diagnostic, Predictive analytics.	[9]	
Q3)	a)	Explain why decision tree are used. Draw a sample deciexplain its parts.	sion tree and [9]	
	b)	How Apriori Algorithm works, explain with suitable exa	ample? [9]	
		OR OR		
<i>Q4</i>)	a)	What is data preprocessing? Explain in details about hand data and transformation of data.	dling missing [9]	
	b)	Explain Naïve Bayes' classifier and it applications.	[9]	

Q5) a)	What is text processing? Explain TF IDF with example.	[8]
b)	With suitable example, explain the steps involved in k-means algorit	hm. [9]
Q6) a)	Define following terms with respect to confusion matrix:	[8]
	i) Accuracy	
	ii) Precision	
	iii) Recall	
	iv) AUC-ROC	
b)	Explain & fold Cross Validation & Random Subsampling.	[9]
Q7) a)	With a suitable example, draw a Histogram, boxplot and explain	
b) \(\)	usages. Describe the data visualization fool Tableau. List of data visualization	[9]
0)	tools.	[9]
	OR OP	
Q8) a)	What is Data Visualization? Describe the challenges of data visualizat	ion.
		[9]
b)	Explain architecture of Apache-Pig.	[9]
	Explain architecture of Apache-Pig.	
	\$	
	6.	
	Explain architecture of Apache-Pig.	
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