Tota	l No.	of Qu	nestions : 8 SEAT No. :					
PA-1508			[Total No. of Pag	ges : 2				
[5926]-128								
T.E. (Information Technology)								
DATA SCIENCE AND BIG DATA ANALYTICS								
(2019 Pattern) (Semester-II) (314452)								
Time		s : 70						
Time: 2½ Hours] [Max. Instructions to the condidates:								
	1)		wer QI or Q2, Q3 or Q4, Q5 or Q6, Q7 or Q8.					
	<i>2) 3)</i>		t diagrams must be drawn wherever necessary. ures to the right indicate full marks.					
	4)		ame suitable data, if necessary.					
01)	-)	2		[5]				
<i>Q1)</i>	a)	1)	Explain Google File system and its advantages.	[5]				
		ii)	Explain ETL in Big data.	[5]				
	b) \	Exp	plain Hadoop distributed file system.	[8]				
			OR)					
02)	`	•		[7]				
<i>Q2</i>)	a)	i)	Write 5 Hadoop Shell commands.	[5]				
		ii)	Explain Role Job tracker and Task Tracker in Hadoop Architecture					
				[5]				
	b)	Exp	plain Map Reduce with proper diagram for word count example	<mark>:</mark> . [8]				
			plain Map Reduce with proper diagram for word count example					
Q3)	a)		plain different types of Big Data Analysis techniques.	[8]				
~ /	b)	i)	Explain Different Data Transformation techniques.	[3]				
	,	ii)	What is dataset? Explain with python syntax of different typ					
		,	dataset used in Big data.	[6]				
			OR					
Q 4)	a)	i)	Explain Mean, Mode and variance and standard deviation	with				
			suitable example.	[8]				
		ii)	Explain Data Standardization.	[3]				
	b)	Dra	w and explain Architecture of HIVE.	[6]				
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<i>Q5)</i>	a)	i) How data visualization help Big data Analytics.	[4]
		ii) List the conventional Data visualization tools. Explain any Two.	[6]
	b)	Explain data visualization with the help of example? What are	the
		advantages of data visualization?	[8]
		OR	
Q6)	a)	Explain any 4 Types of data visualization with example.	[8]
	b)	i) Explain different data visualization tools.	[6]
		ii) Explain Data Visualization with Tableau.	[4]
Q7)	a)	Explain Text mining with example.	[8]
	b)	Explain Big Data Analytics Challenges in brief.	[9]
		OR	
		.6.	
Q8)	a)	Explain Big Data Analytics Challenges in brief. OR Explain four Big Data use cases. Explain types of Mobile Analytics.	[8]
29	b)	Explain types of Mobile Analytics.	[9]
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