Total No. of Questions: 8]		90	SEAT No.:	
P826	[597 0]	1140	[Total No. of Page	es : 2

[5870] - 1149 T. E. (Information Technology) DATA SCIENCE AND BIG DATA ANALYTICS (2019 Pattern) (Semester - II) (314452)

Time	: 21	1/2 Hours]	[Max. Marks : 70
Instr	ucti	ons 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.	
	<i>2</i>)	Neat diagrams must be drawn wherever necessary.	
	3) 4)	Figures to the right side indicate full marks. Assume the suitable data, if necessary.	
	-)	Assume the summer and, if necessary.	
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<i>Q1</i>)	a)	Explain Big data Ecosystem with suitable diagram.	[7]
	b)	Explain anatomy of File read and write in HDFS.	[7]
	c)	Write and explain any two Hadoop shell commands.	[4]
		OR OR	
Q2)	a)	Explain Map Reduce with proper diagram for word cou	nt example. [7]
	b)	Explain Google file system.	[7]
	c)	Explain ETL processing.	[4]
Q3)	a)	Explain different steps in Data Analytics Project Life cyc	cle [7]
	b)	Draw and explain Architecture of HIVE.	.[7]
	c)	Explain different data mansformation techniques.	× [3]
		OR	
Q4)	a)	Explain different kinds of Big Data Analysis.	[7]
	b)	How data can be ingested in python. Write symax in	python for the
		same.	[7]
	c)	Explain role of visualization in big data analytics.	[3]
<i>Q</i> 5)	a)	Explain different techniques of Big Data visualization.	[7]
~ /	b)	Explain challenges in Big data visualization.	[7]
	c)	Write two data visualization functions from matplotlib.	[3]
	<i>(</i>)		[3]
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Q6)	a)	Explain different tools for data visualization.	[7]
	b)	Explain scatter plot, histogram and heat map with example.	[7]
	c)	Write two data visualization functions from seaborn.	[3]
<i>Q7</i>)	a)	How Social Media analytics helps in value creation? Explain with suit	able
~ .		examples.	[7]
	b)	Explain in brief data analytics life cycle.	[7]
	c)	Explain big data value terminology.	[4]
		OR	
Q 8)	a)	What is text mining? Draw and explain text mining architecture an	
		use.	[7]
	b) \	Explain Big data analytics in research.	[7]
	c)	Explain big data impact on organizations.	[4]
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