Total No. of Questions: 8]	90	SEAT No.:	
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[5870] - 1149 T. E. (Information Technology) DATA SCIENCE AND BIG DATA ANALYTICS (2019 Pattern) (Semester - II) (314452)

Time: 2	2½ Hours] [M	lax. Marks : 70
Instruct	tions 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.	
2)	Neat diagrams must be drawn wherever necessary.	
3)	Figures to the right side indicate full marks.	
4)	Assume the suitable data, if necessary.	
Q1) 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 count	example. [7]
b)	Explain Google file system.	[7]
c)	Explain ETL processing.	[4]
Q3) a)	Explain different steps in Data Analytics Project Life cycle	[7]
b)		·[\(\overline{\alpha}\)
·		2121
c)	Explain different data transformation techniques.	(3)
	OR	.57
Q4) a)	Explain different kinds of Big Data Analysis.	[7]
b)	How data can be ingested in python. Write syntax in p	vthon for the
- /	same.	[7]
,		
c)	Explain role of visualization in big data analytics.	[3]
Q5) a)	Explain different techniques of Big Data visualization.	[7]
b)		[7]
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c)		[3]
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OR

Q6) a)	Explain different tools for data visualization.	
b)	Explain scatter plot, histogram and heat map with example.	[7]
c)	Write two data visualization functions from seaborn.	[3]
07)		5-11
Q7) a)	How Social Media analytics helps in value creation? Explain with examples.	n suitable [7]
b)	Explain in brief data analytics life cycle.	[7]
c)	Explain big data value terminology.	[4]
σ,	OR OR	[-3
Q8) a)	What is text mining? Draw and explain text mining architectur	
	use.	[7]
b) N	Explain Big data analytics in research.	[7]
c)	Explain big data impact on organizations.	[4]
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