Total N	No. of Questions : 8]	SEAT No. :			
P490		[Total No. of Pages : 2			
[6003] 711					
T.E. (I.T.)					
DATA SCIENCE AND BIG DATA ANALYTICS					
(2019 Pattern) (Semester-II) (314452)					
Time:	2½ Hours]	[Max. Marks : 70			
Instruc	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)		30			
3)	Neat diagrams must be drawn wherever necessary.				
4)	Assume suitable data, if necessary.				
01) o	95.	, ,			
Q1) a		[10]			
b	Explain Hadoop distributed file system OR	[8]			
Q2) a)		oin the stages involved in			
Q_{2}	map reduce task with a suitable example?	in the stages involved in [9]			
b		es with example and also			
	compare them.	[9]			
Q3) a) Explain Mean, Mode and variance and standar	d deviation with suitable			
	example.	[9]			
b) Draw and explain Architecture of HIVE	[8]			
	OR	9, %			
Q4) a	Explain Min-max scaling. For the following d	ataset carry out min-max			
	Scaling, X=24, 28, 53, 30, 40, 18, 15, 21	[9]			
b	What is data Wrangling? Why do you need it	explain data Wrangling			
	methods?	[8]			
		6			
Q5) a	Explain any 4 Types of data visualization with	example. [9]			
b	Explain different data visualization tools.	[9]			
	OR OR				
	9.	P.T.O.			
		1.1.0.			

Q6)	a)	Explain data visualization with the help of example? What are advantages of data visualization?	the [9]
	b)	Explain Data Visulization with Tableau.	[9]
Q 7)	a)	Explain Big Data Analytics Challenges in brief.	[9]
	b)	Explain types of Mobile Analytics.	[8]
		OR	
Q 8)	a)	What is Porters valuation creation model? Explain porter's value chanalysis.	nain [9]
	b)	What is social media analytic? Explain the process of social media of	lata
		analytic. V	[8]
1600	31-7	And	
[600	3]-7	2	