Total No. of Questions: 8]	SEAT No. :	
P490	[Total No. of Page	es : 2
	[6002] 711	

[6003]-711

T.E. (**I.T.**)

	DATA SCIENCE AND BIG DATA ANALYT	ICS
(2019 Pattern) (Semester-II) (314452)		
Time : 2 ¹	/2 Hours]	[Max. Marks : 70
Instructi	ons 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.	
<i>2</i>)	Figures to the right indicate full marks.	
3)	Neat diagrams must be drawn wherever necessary.	
4)	Assume suitable data, if necessary.	
Q1) a)	Explain Google file system and its advantages.	[10]
b)	Explain Hadoop distributed file system	[8]
	OR	
Q2) a)	Why map reduce is required in Hadoop? Explain the st map reduce task with a suitable example?	tages involved in [9]
b)	Describe the various types of NoSQL Databases with ecompare them.	example and also [9]
Q3) a)	Explain Mean, Mode and variance and standard deviate example.	ion with suitable [9]
b)	Draw and explain Architecture of HIVE	[8]
	OR	
Q4) a)	Explain Min-max scaling. For the following dataset ca Scaling, X=24, 28, 53, 30, 40, 18, 15, 21	rry out min-max [9]
b)	What is data Wrangling? Why do you need it? explain methods?	data Wrangling [8]
Q5) a)	Explain any 4 Types of data visualization with example.	[9]
b)	Explain different data visualization tools.	[9]
	OR	

- Q6) a) Explain data visualization with the help of example? What are the advantages of data visualization? [9]
 - b) Explain Data Visulization with Tableau. [9]
- **Q7**) a) Explain Big Data Analytics Challenges in brief. [9]
 - b) Explain types of Mobile Analytics. [8]

OR

- **Q8)** a) What is Porters valuation creation model? Explain porter's value chain analysis. [9]
 - b) What is social media analytic? Explain the process of social media data analytic. [8]

