

WEST BENGAL STATE UNIVERSITY

B.Sc. Honours 6th Semester Examination, 2021

CMSADSE04T-COMPUTER SCIENCE (DSE3/4)

BIG DATA

Time Allotted: 2 Hours Full Marks: 40

The figures in the margin indicate full marks.

Candidates should answer in their own words and adhere to the word limit as practicable..

1.		Answer any <i>four</i> questions from the following:	$2 \times 4 = 8$
	(a)	State two characteristics of big data application.	
	(b)	Write down the four computing resources of Big Data Storage.	
	(c)	Define HDFS. What are the different components of HDFS?	
	(d)	What is throughput in Big Data?	
	(e)	How is Hadoop different from other parallel computing systems?	
	(f)	What is Sequence File in Hadoop?	
		Answer any four questions from the following	8×4 = 32
2.		What is Big Data? How is HADOOP related to Big Data? Describe the main features of a big data in detail.	2+2+4
3.		What is meant by Hadoop Streaming? Explain Hadoop streaming with an example.	3+5
4.		What is the difference between Hadoop and Traditional RDBMS? Explain HADOOP architecture and how it works.	4+4
5.		What would be the overall goals of big data in healthcare? Explain. How Big Data helps to identify risks and reduce fraud in Healthcare?	3+5
6.		Explain the different tools to extract Big Data. What is NoSQL? Explain four types of NoSQL in brief.	3+1+4
7.		Explain any one of the Hadoop components. Key value Database is different from Document database. Explain.	4+4
		N.B.: Students have to complete submission of their Answer Scripts through E-mail / Whatsapp to their own respective colleges on the same day / date of examination within 1 hour after end of exam. University / College authorities will not be held responsible for wrong submission (at in proper address). Students are strongly advised not to submit multiple copies of the same answer script.	

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