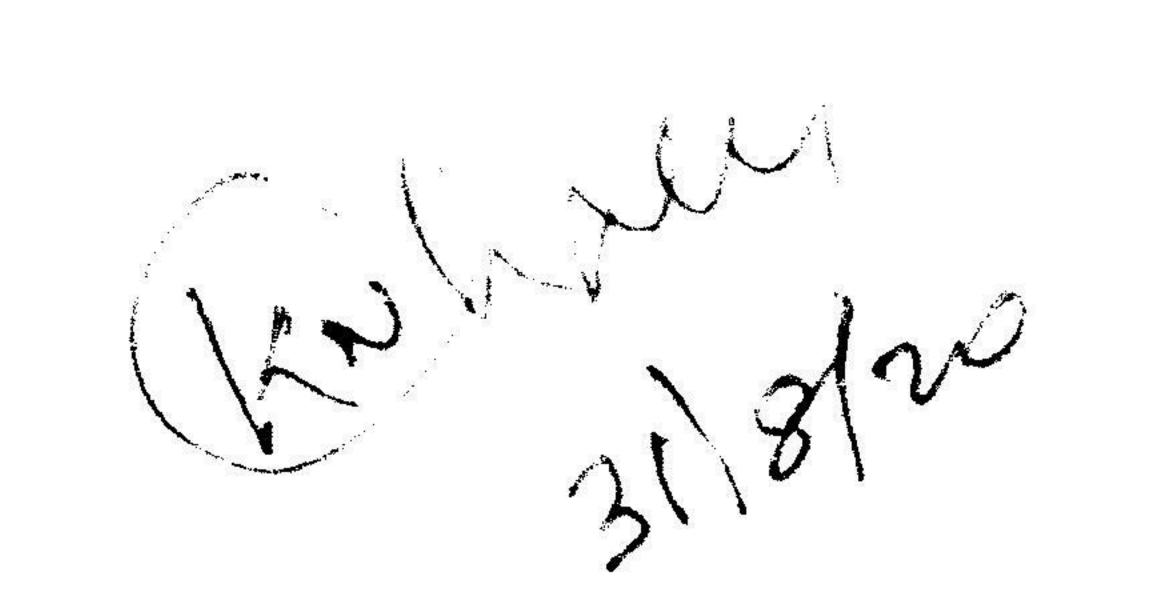
U.S.N



P.E.S. College of Engineering, Mandya - 571 401

(An Autonomous Institution affiliated to VTU, Belagavi)

Eighth Semester, B.E. - Information Science and Engineering Semester End Examination; Aug. / Sep. - 2020



## Big Data

1	Sime: 3 hrs	Max. Marks: 10	)0
		ONE full question from UNIT - I and UNIT - II. hoosing from UNIT - III, UNIT - IV and UNIT - V	
		UNIT - I	
a.	List and discuss the four elements of Big da	ita.	
b.	What is Big data? Discuss the different type	es of Big data.	
<b>C</b> .	Discuss the advantages of Big data analytic	S.	
		OR	
a.	Discuss some areas in which decision-maki	ng process are influenced by social network data.	
b.	List some common types of financial fraud	s prevalent in the current business scenario and al	SO
	explain how we can use Big data in prevent	ing fraudulent activities?	
		UNIT - II	
a.	What is Hadoop? Explain the components of	of Hadoop.	
b.	Discuss job tracking process in Map-Reduc	e.	
		OR	
a.	Why NoSQL? Discuss the benefits and chall	llenges of NoSQL.	
b.	Discuss the different types of NoSQL Data	models.	
		JNIT - III	
a.	How does HDFS ensure data integrity in a l	Hadoop cluster?	
b.	Discuss the working of Map-Reduce.		
C.	What is the role of Name Node in an HDFS	cluster.	
a.	Discuss some techniques to optimize Map-I	Reduce jobs.	
b.	List the main features of Map-Reduce.		
<b>C</b> .	Write a short note on HBase.		
		JNIT - IV	
a.	Can Map-Reduce be used to solve any kind	l of computational problem? If not, explain the cas	es
	where Map-Reduce not applicable.		
b.	A company needs to input a large file to a l	Map-Reduce program; however, the input file shou	ld
	not be split and passed as a whole to that achieve this?	he Map functions. Explain how the company ca	311
<b>C</b> .	What is logging? Explain the role it perforn	ns in testing Hadoop applications.	

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