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

(An Autonomous Institution affiliated to VTU, Belagavi)

Seventh Semester, B.E. - Computer Science and Engineering Semester End Examination; Dec. - 2019 Managing Big Data

Time: 3 hrs Max. Marks: 100

Note: Answer FIVE full questions, selecting ONE full question from each unit.

	UNIT - I							
1.a	Bring out the analytical approaches of big data and also explain advantages of	10						
	big data analytics.							
b.	List and explain technical skills and soft skills required for big data developer.	10						
2.a	Discuss some areas in which decision making processes are influenced by social network data.							
b.	. Justify how common types of financial frauds prevalent in the current business scenario and							
	also explain in what ways analyzing big data helps organization prevent fraud?							
	UNIT - II							
3.a	List and explain the important features of Hadoop and also explain the features of cloud	10						
	computing that can be used to handle big data.	10						
b.	Discuss the working of Map Reduce.	10						
4.a	a What is H-Base? Discuss the concept of regins in H-Base.							
b.	b. Explain working of Map Reduce algorithm and also discuss the techniques to optimize							
	Map Reduce jobs.	10						
	UNIT - III							
5.a	Along with neat diagram, explain YARN architecture and also discuss the advantages of YARN							
	over Map Reduce.	10						
b.	Discuss fair sheduling and backword compatibility with YARN.	10						
6.a	Along with neat diagram, explain analytics process.	10						
b.	Write a short note on following:							
	i) Monetized Analytics	10						
	ii) Distributed Models							
	UNIT - IV							
7.a	Explain the following in detail:							
	i) Reporting	10						
	ii) Analysis							
b.	Compare rational database and NoSQL and also brief out the CAP theorem.	10						

8.a	a What is SAS? Explain the features of SAS.	
b.	Compare various analytical tools and also list some important features of IBM SPSS.	10
	UNIT - V	
9.a	List common characterstics of the R language and also write a script for concatinating text and	10
	numerical values in R.	10
b.	Explain the following function in detail:	
	i) The ls() function	
	ii) The rm() function	10
	iii) The getwd() funciton	10
	iv) The save() functin	
	v) The load() funciton	
10.a.	Explian working of c() commond and scan() command with suitable example and also explain	
	i) write.table()	10
	ii) write.CSV()	
b.	What R-studio window consists? Brief out all the components.	10

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