Roll	No			

IT-8003 (2) (CBGS)

B.E. VIII SemesterExamination, June 2020

Choice Based Grading System (CBGS) Data Science

Time: Three Hours

Maximum Marks: 70

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No	te: i) Attempt any five questions.	
	i	ii) All questions carry equal marks.	
1.	a)	Explain big data management architecture with neat block diagram.	7
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	b)	Explain the role of relational databases in big data.	7
2.	a)	Classify the different data types with reference to big data.	7
	b)	Define a normal distribution and derive the mean, median, mode of a normal distribution	on7
3.	a)	Derive the mean and the variance of a binomial distribution.	7
	b)	Explain the role of support vector machine in data analysis.	7
4.	Exp	plain the following:	14
	i)	Naive bayes classifier	
	ii)	Linear regression with conlinear substitution	
	iii)	Evolution of data madagement	
5.	a)	Explain parallel vs distributed processing.	7
	b)	Explain data warehousing architecture.	7
6.	a)	Explain data preparation, model planning and model building.	7
	b)	Differentiate cluster architecture and traditional architecture.	7
7.	a)	Explain core components of hadoop ecosystem with neat diagram.	7
<i>,</i> .	b)	Explain loops and conditional execution in R language.	7
	U)	Explain loops and conditional execution in it language.	/
8.	a)	Explain data manipulation and statistical analysis with R.	7
	b)	Explain various data structures used in R.	7
