

Sardar Patel Institute of Technology

Bhavan's Campus, Munshi Nagar, Andheri (West), Mumbai-400058-India (Autonomous College Affiliated to University of Mumbai)

End Semester Examination

Nov-Dec 2017

Max. Marks: 100

110V-DCC 201

Class: ME

Semester: I

Course Code: CE912

Branch: Computer

Duration: 180 Minutes

Name of the Course:

Big Data Analytics and Management(BDAM)

Instructions:

(1) All Questions are Compulsory

(2) Draw neat diagrams

(3) Assume suitable data if necessary

Question No.		Max. Marks	СО
Q 1 (a)	What are the advantages of Big data Analytics as compared to traditional analytical model and advantages of Hadoop in particular over RDBMS	10	1
Q 1 (b)	Illustrate Hadoop Architecture. Give functionality of each component like NN, DN, JT, TT etc	10	1
Q 2 a)	Write a Map Reduce program for word count of large data. Give	10	2
	the output at each stage ie mapper stage and reduce stage		
	OR		
	Write the program for the following scenario -		
	Let there be a file : custs.txt		
	where col1 - cust_id		
	col2 - first_name col3 - last_name .		
	col4 - age		
	col5 - designation		
	Write a Map Reduce program to find out Designation wise		
	Customer count like -how many doctors are there in the file or		
	how many lawyers are there in the file.		
Q2(b)	Explain Natural join by map reduce with an example . Write its pseudo code.	10	2



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	OR Explain grouping and aggregation by map reduce with an example. Write its pseudo code.		
Q3 (a)	Describe stream clustering algorithm. Explain initialization, merging buckets and answering queries.	10	3
Q3 (b)	what is sentiment analysis? Explain in brief.	10	3
Q4 (a)	Give the analysis of Flajolet-Martin algorithm.	10	4
Q4 (b)	Describe data stream model in details with examples. OR Give different techniques to combat link spam	10	4
5 (a)	what are the different types of load scenarios in Hadoop. Explain with examples.	10	5
Q 5(b)	Describe Sqoop along with its working? Give its import command. OR Explain working of Flume with the help of diagrams.	10	5