

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

November 2019

Duration: 3 Hr

Branch: Computer

Semester:I

Max. Marks: 60

Class: M.Tech

Course Code: CE912 Name of the Course: Big Data Analytics and Management

Instructions:

(1) All questions are compulsory

(2) Assume suitable data if necessary

(3) Draw neat diagram wherever required.

Q No.		Max. Marks	CO-BL-PI
Q.1a	Write a Map reduce program using Java - To count the words excluding following words: - the, this, there, that, these. Note: No need to write the driver class	6	2-3-2.2.3
Q.1b	Write a pseudocode for computing Difference operation using Map reduce.	6	1,2-3-2.1.2
Q.2a	Justify - Combiner can be viewed as mini-reducers in the map phase. Draw a scenario to explain combiner in Map and Reduce phase OR What is partitioning above the Popular Property of the second partition of the partition of th	6	2-3-2.3.2
	What is partitioning phase – Draw and explain need of partitioner's in map reduce you can take any relevant scenario and explain this		
Q.2b	Write a pseudocode for computing Intersection operation using Map reduce	6	2-3-2.1.2
Q.3a	What is Reducer side join? Write a pseudocode for the data set having following schema: SchCustomerSale(TranID, Date, CustID, Amount, Equipment, city, state, mode)	6	2-3-2.3.2
Q.3b	What is the use of Oozie coordinator.	6	5-3-1.1.2
Q.4a	Write CURE Algorithm. Explain initialization phase and completion phase.	6	3-3-3.1.2
	OR		
	How amazon reviews can be used for sentiment analysis? Write the basic steps for it.		

Q.4b	Discuss how item based collaborative filtering can be applied for the example given.					8	3-3-3.1.2	
		User	Item	Rating				
		u1	m1	2				
		u1	m3	3				
		u2	m1	5				
		u2	m2	2				
		u3	m1	3				
		u3	m2	3				
		u3	m3	1				
		u4	m2	2				
		u4	m3	2				Market 1
Q.5a	Write any three varieties in Social Network graph.				3	4-3-3.1.4		
	OR							
	Write any three applications of Data Streams.							
Q.5b	Why are dead-ends and spider traps a problem and why do teleports solve the problem?						7	4-3-3.14