



Sardar Patel Institute of Technology

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

ESE

November 2018

Max. Marks: 60

Class: M.Tech(Sem I)

Course Code: CE912

Synoptics

Duration: 180 min.

Time: 10 am-1 pm

Name of the Course: Big Data Analytics and Management

Instructions:

- (1) All questions are compulsory
- (2) Draw neat diagrams
- (3) Assume suitable data if necessary

Q.No.		Max Marks	CO
Q.1 a	Five Characteristics (5 V's) of big data 8 Mark Volume 1 M Velocity 1.5 M Variety 1.5 M Varacity 1.M Value 1.M OR Difference between NameNode, Backup Node and Checkpoint NameNode atleast 4 points each (3 marks and 3 parks Resp)	06	CO1
Q1.b	Definition of Rack Awareness 2 Mark Example 2 Marks List advantages of Rack Awareness 2Marks	06	CO1
Q.2 a	Correct mapper class logic with map function and word count program. [3 M] and Correct reduce class logic. [3 M]	06	CO2
Q2.b	Natural join using map-reduce explanation [3 M] pseudocode[3M]	06	CO2
Q.3 a	At least3 drawbacks of traditional clustering algorithm 2 Marks Working of CURE clustering algorithm with two pass and example 4 Marks OR	06	CO3

	Definition of stream computing 1 Mark Explanation of Stream computing algorithm in detail 5 Marks		
Q3.b	Definition of text mining? 1 marks Difference between text mining and text analytics? 2 marks Explain various applications of text analytics applications in detail with example? 3marks	06	CO3
Q.4 a	key problems in recommendation at least 3 points 2 Marks User Profile for user 2 and user 5 each 2 Marks	06	CO4
Q.4 b	Defintion of sentiment analysis 1 Mark Explanation of sentiments analysis process in detail by considering YouTube user feedback 5 marks	06	CO4
Q.5 a	Explanation of oozie workflows 2 marks explanation of oozie workflow elements 4 marks OR Flume start procedure 2 marks Configuration of a flume agent 4 marks	06	CO5
Q.5 b	submission of workflow job in oozie 3 marks submission of co ordinator job in oozie 3 marks	06	CO5