

Sardar Patel Institute of Technology

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

Mid Semester Examination Synoptic

September 2019

Max. Marks: 20 Class: M.Tech

Duration: 1 Hr

Course Code: CE912

Semester:I Branch: Computer

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.	Illustrate the Hadess E.	Max. Marks	CO	BI
f	Illustrate the Hadoop Ecosystem and its core component at the input level, storage level, processing level, output level. What are the data injection tools for Structured, unstructured and semi structured data. Soln: Correct Diagram with explanation 5 marks Data Injection tools Scoop and Flume = 2 Marks - one each But if Diagram is correct and explanation is not correct then 4 marks	4+3	COI	L2
	Elaborate the the concept of checkpointing by taking into consideration fsimage and edits-log files OR Consider a Job of 1 TB of data. Scenario 1: one machine with 4 I/O channels each channel of 100 Mbps Scenario 2: Clusture of 10 machines with 4 I/O channels Each Channel- 100 Mbps. What is the amount of time required in both the scenarioes to read 1 TB of data Soln: Correct Explanation of Checkpointing and fsimage and editlog files = 3 marks Partial correct then 1 or 2 marks	3	CO2	L3
	Write the rules followed when streams is represented by buckets in DGIM Algorithm. How an input bit stream 101011000101110110010110 is partitioned into buckets. What happens when a new input stream 10101011 is added to it? Soln: Rules followed when streams is represented by buckets in DGIM Algorithm. 3 marks bit stream 101011000101110110010110 is partitioned into buckets. 2 marks new input stream 10101011 is added. 2marks	3+2+2	CO4	L3

Q.4	Draw the Structure of web and explain the components of it. Soln: Diagram of the Structure of web. 1 mark explain the components. 2marks	1+2	CO4	L2
	OR Define Page rank. How spider traps and dead ends affect the Page rank. Soln: Definition of Page rank. 1 mark spider traps and dead ends affect the Page rank. 2 marks			

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