...ar Patel Institute of Technology

...van's Campus, Munshi Nagar, Andheri (West), Mumbai-400058, India

(Autonomous College Affiliated to University of Mumbai)

Mid Semester Evaluation (Synoptic)

Mar 2019

Max. Marks: 20 | Duration: 60 Min
Class: B.E. | Semester: VIII
Course Code: CPE8035 | Branch: Computer
Name of the Course: Elective-III Big Data Analytics

Instruction:
(1) All questions are compulsory

Q No.		Max. Marks	CO
Q.1	Name any five V's in Big Data and give one line explanation of any three. **Synoptic :** All V's correctly identified and written [Max. Marks 4 = (2.5 for 5 names +1.5 for explaination of any 3)]	4	CO1
Q.2	What is meant by Data Locality in Hadoop? **Synoptic :** Correct explanation of Data Locality 2 Marks **OR** Describe Page Rank in link analysis with example. **Synoptic :** Explanantion = 1 Mark Example = 1 Mark	2	CO2
Q.3	Compare SQL and NOSQL **Synoptic :** Write any 4 correct points	4	CO3
Q.4	A data stream consists of elements chosen from a set of size n. Maintain a count of the number of distinct element seen so far. Propose the solution to solve this problem. **Synoptic :** Name of proposed solution algorithm is Flajolet Martin Algorithm = 1 Mark Explanation of algorithm = 4 Marks **OR** Problem - Given a stream of 0's and 1's. Answer queries of the form " How many 1's in the last k-bits". **Synoptic :** Name of the proposed solution algorithm is Datar- Gionis-Indyk-Motwani Algorithm = 1 Mark Explanation of algorithm = 4 Marks	5	CO4
Q.5	How to perform Association Rule Mining. List any two suitable examples where the association rule can apply. **Synoptic :** Association Rule Mining = 3 Marks 2 Example = 2 Marks	5	CO3