



Sardar Patel Institute of Technology

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

Mid Semester Examination

October 2022

Max. Marks: 20

Class: BE IT/BE Computer

Course Code: CS414

Semester: VII

Duration: 1 Hours

Name of the Course: Big Data Analytics and Information Retrieval

Instructions:

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

Question No.		Max. Marks	CO
Q1	Draw and explain HDFS architecture	05	CO1
Q2	Hadoop can not replace traditional RDBMS. Justify your answer.	05	CO1
Q3	Explain Bloom filter with suitable example using minimum 3 hash functions OR Compare and contrast hash table vs Bloom filter	05	CO2
Q4	With example explain big data algorithm for counting Ones in a Window	05	CO2