	Trim: June – Nov 24		
Maximum Marks: 50	**Examination: ETE Exam**	**Date: 25-11-2024**	**Duration: 3 Hrs. (10.30 am. To 1.30 pm)**

Programme code: 09 **Programme: MCA**	**Class:** SY **Semester: III**
College: K. J. Somaiya Institute of Management	**Name of the department/Section/Center: DST**
Course Code: 217P09C301	**Name of the Course: Big Data Analytics** **(Using Hadoop Framework)**
Instructions: 1. Question No. 1 is Compulsory 2. Solve any four questions from Q2 to Q6.	

Question No.		Max. Marks
Q1	a) Write the difference between Traditional Analysis and Big Data Analytics. b) Comparison between RDMS and Hadoop.	5 M 5 M
Q2	Explain the combiner concept in MapReduce with sample code and give advantages and disadvantages.	10 M
Q3	List all and explain in detail any four types of HBase filters with sample code.	10 M
Q4	Explain the storage mechanism of Hive. Write down the difference between partition and bucket concepts with their advantages. Write code snippets to create partitions & buckets.	10 M
Q5	a) Write the difference between a Relational Database and a NoSQL database. b) Explain the CAP Theorem.	5 M 5M
Q6	Explain Pig Macros with advantages and disadvantages. Explain how to develop pig macro with and without parameters with examples.	10 M