Roll No……..….. **Total No. of Printed Pages: [1]**
Total No. of Questions: [11]

MCA (Semester – 4th)
BIG DATA
Subject Code: MCAPD1-411
Paper ID: [20270122]

Time: 03 Hours **Maximum Marks: 60**

Instruction for candidates:

1. Section A is compulsory. It carries 16 marks. It consists of 4 questions of 4 marks each.
2. Section B consist of 4 questions of 8 marks each. The student has to attempt any 3 questions out of it.
3. Section C consist of 3 questions of 10 marks each. The student has to attempt any 2 questions.

Section – A **(4 marks each)**

Q1. Explain the meaning of four different V's characterizing Big Data.

Q2. Explain different components of Big Data Technology.

Q3. What is HDFS? What are Names nodes and Data nodes in HDFS?

Q4. Discuss in brief latest trends in Big Data Technology.

Section – B **(8 marks each)**

Q5. What do you mean by MapReduce? How is it used?

Q6. Explain various Functional models of Big Data.

Q7. What is Hadoop? Explain its architecture.

Q8. Explain in brief various security issues and challenges of Big Data Technology.

Section – C **(10 marks each)**

Q9. How real-time data is processed using Big Data Technology? How is it different from Traditional computing paradigm?

Q10. What do you mean by Big Data Analytics? How Regression is used in Big Data Analytics?

Q11. What is the role of Clustering in Hadoop? How is it implemented?