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Total No. of Printed Pages: [1]

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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?