

Ajay Kumar Garg Engineering College, Ghaziabad

Department of MCA

Sessional Test-2

Course:	MCA	Semester:	5
Session:	2017-18	Section:	MCA-1 & 2
Subject:	Big Data	Sub Code:	NMCAE-44
Max Marks:	50	Time:	2 hour

Note: Answer all the sections.

Section-A

A. Attempt all the parts. (5 X 2 = 10)

1. What is the purpose of Hadoop Pipe?
2. What is the advantage of using materialized View?
3. Differentiate between scale up and scale out.
4. What is Codec? Name the interface for its implementation.
5. Explain Partition Tolerance through an Example.

Section-B

B. Attempt all the parts. (5 X 5 = 25)

6. Compare and contrast various Compression algorithms in Hadoop.
7. What is the use of serialization? What are the methods of Sterilization in Hadoop?
8. Differentiate between Schema less data bases and Schema based data base.
9. Discuss various Distribution Model with their advantages and Disadvantages.
10. What are the Advantages of AVRO File Based data Structures over Sequence File Format?

Section-C

C. Attempt all the parts. (2 X 7.5 = 15)

11. What are the stages involved in Map-Reduce? Explain giving an example.
12. Explain Key value and Graph database model in detail giving examples.