

C 6504 A

B.C.A. (Three Year) DEGREE EXAMINATION, MARCH/APRIL 2018.

End Semester Examination

Sixth Semester

(Regular)

HADOOP & R LANGUAGE

Time : 3 Hours

Max. Marks : 70

PART — A

Answer any FIVE of the following questions. **(5 × 4 = 20 Marks)**

1. What are the modes that a Hadoop can run?
2. Why key type need to be both writable and comparable in Map Reduce Program?
3. Write about Hadoop 'Eco System' components.
4. Describe math functions in R.
5. Write about type conversion in R.
6. Define the various file formats supported by HIVE.
7. Write about vectors in R.
8. How a secondary name node differs from the name node in HDFS?

PART — B

Answer ALL the following questions. **(5 × 10 = 50 Marks)**

UNIT I

9. (a) Explain the basic building blocks of Hadoop with a neat sketch.

Or

- (b) What is the role of data node and name node in HDFS?

Turn Over

UNIT II

10. (a) Explain about the implementation of map reduce concept with a small example.

Or

- (b) Differentiate between the old and new version of Hadoop API for Map Reduce Frame Work.

UNIT III

11. (a) Why HiVE is relevant in Hadoop Eco System?

Or

- (b) Explain about the various data types supported by HiVEQL with an example.

UNIT IV

12. (a) Write about control statements in R.

Or

- (b) Explain different types of operators in R.

UNIT V

13. (a) Explain linear algebra operations on vectors and matrices.

Or

- (b) Describe R Functions for Reading a Matrix or Data Frame from a file.
