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P.E.S. College of Engineering, Mandya - 571 401
(An Autonomous Institution affiliated to VTU, Belagavi)
Seventh Semester, B.E. - Information Science and Engineering
Semester End Examination; Dec - 2017 / Jan - 2018
Big Data

Time: 3 hrs   *Max. Marks: 100*

Note: Answer **FIVE** full questions, selecting **ONE** full question from each unit.

UNIT - I

1 a.	Define Big data and explain Big data in terms of three dimensions: volume, variety and velocity.	10
b.	Explain the role of Big data in Industry.	10
2 a.	Discuss why Big data and its importance.	10
b.	Explain inter and trans firewall analytics.	10

UNIT - II

3 a.	Explain the aggregate data model in detail.	10
b.	Explain NoSql. Why are NoSql Databases interesting?	10
4 a.	Explain Document database and Graph database with example.	10
b.	Explain MapReduce in detail.	10

UNIT - III

5 a.	Explain HDFS architecture in detail.	10
b.	Explain Hadoop pipes with an example.	10
6 a.	Explain MapReduce java program for word count.	10
b.	Explain Hadoop architecture in detail.	10

UNIT - IV

7 a.	Explain the anatomy of classic MapReduce.	10
b.	Discuss the limitations of current classic MapReduce and YARN.	10
8 a.	Explain YARN architecture in detail.	10
b.	Discuss issues in MapReduce scheduling.	10

UNIT - V

9 a.	Explain Hbase in detail with a neat diagram.	10
b.	Compare and contrast Relational Database and Hbase.	10
10 a.	Explain Cassandra in detail with its data model.	10
b.	Explain Pig Latin with an example.	10

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