Do Pardoep Kumsir

## JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT TEST -2 EXAMINATIONS- 2018

## B.Tech VIII Semester

COURSE CODE: 15B1WCI833

MAX. MARKS: 25

COURSE NAME: Big Data Analytics

COURSE CREDITS: 03

MAX. TIME: 1Hr 30 Min

**Note:** All questions are compulsory. Carrying of mobile phone during examinations will be treated as case of unfair means.

- 1. What is the difference between Apache Hadoop and Apache Spark? Is Apache Spark going to replace Apache Hadoop? Justify your answer.

  [5]
- 2. Explain Map-Reduce processing workflow framework with suitable diagram. Illustrate it with word count problem across multiple documents. [5]
- 3. What do you understand by stream data? Give real life examples. What are the problems to process the stream data? How do you differentiate the standing queries from ad hoc one? Differentiate with suitable examples.

  [5]
- 4. Compare the sampling of a fixed proportion with sampling of a fixed-size sample for sampling from a data stream. Prove reservoir sampling with principal of mathematical induction.