APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

SECOND SEMESTER (Second Year Direct) & FOURTH SEMESTER (Regular) MCA DEGREE EXAMINATION, APRIL 2018

Course Code: RLMCA 204 Course Name: BIG DATA TECHNOLOGIES

Max. Marks: 60 Duration: 3 Hours

PART A

Answer all questions. Each question carries 3 marks

- 1. What do the four V's denote? Discuss.
- 2. How distributed file systems helps Big Data storage?
- 3. On what concept the Hadoop framework works?
- 4. What are the main components of a Hadoop Application?
- 5. Summarize the uses of Map Reduce.
- 6. How in memory data grid helps in Big Data?
- 7. Discuss about RDBMS.
- 8. Compare and contrast correlation and regression.

PART B

Answer any one from each question. Each question carries 6 marks

9. a. How analytical approaches work in Big Data?

OR

- b. Classify the types of data.
- 10. a. Differentiate between Sharding and replication.

OR

- b. Contrast CAP, BASE and ACID theorem.
- 11. a. Write a short note on HBase.

OR

- b. Exemplify Hadoop Ecosystem.
- 12. a. Explore the techniques that optimize the working of MapReduce.

OR

- b. Execute the working of MapReduce Algorithm.
- 13. a. Interpret the NoSQL databases.

OR

- b. Specify the cases where in memory storage devices are appropriate.
- 14. a. Recognize the types of semantic analysis.

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b. Classify the statistical analysis methods.
