APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY SECOND SEMESTER M.TECH DEGREE EXAMINATION, MAY 2016

Computer Science and Engineering

(Computer science and Systems Engineering)

04 CS 6434—Big Data Management and Analytics

Max. Marks: 60

Duration: 3 Hours

PART A

Answer All Questions

Each question carries 3 marks

- 1. Write any 3 sources of big data.
- 2. Write the features of Hadoop Distributed File system.
- 3. Write about any two failures possible in a hadoop cluster.
- 4. What are the two styles for distributing data?
- 5. Write notes on 2 basic types of machine learning algorithms.
- 6. Write a note on the features of R.
- 7. What is clustering? Why it is known as unsupervised machine learning?
- 8. Write an example for the implementation of any machine learning technique in R.

PART B

Each question carries 6 marks

9. Explain the difference between predictive and descriptive analytics.

OR

- 10. What is big data? How it is generated? Write about any two tools to process big data.
- 11. Describe the working of Hadoop Distributed File system.

OR

- 12. Explain map reduce programming model with an example.
- 13. Explain different job scheduling techniques in hadoop.

OR

- 14. With a neat diagram describe the working of hadoop map reduce cluster.
- 15. Explain graph databases with an example.

OR

- 16. Explain aggregate data model with an example.
- 17. Briefly explain the following classification techniques.(i) Support Vector Machine (ii) Naïve Bayes

OR

- 18. Explain any unsupervised machine learning technique.
- 19. With an example explain the implementation of any machine learning technique in python.

OR

20. Explain the uses of machine learning