19IT601 – Data Science and Analytics

PART A

- 1. Define Data Science.
- 2. List out the characteristics of big data
- 3. What is Prescriptive Analytics?
- 4. Differentiate discrete and continuous data and give example for each.
- 5. What is binomial distribution?
- 6. Define big data analytics?
- 7. Mention the types of digital data with example
- 8. Write the importance of big data analytics
- 9. What is probability density function?
- 10. How useful is measure of Covariance and Correlation in data analytics?

PART B

- 1. I)Write in detail the phases of data science life cycle II)Enumerate the skills required and the roles of the data scientist.
- 2. Illustrate with example the classification of digital data
- 3. Explain the major challenges of handling big data.
- 4. Discuss the different types of data with suitable example.
- 5. Brief out various terminologies used in big data environment
- 6. Elaborate the history and evolution of big data.
- 7. Describe the characteristics data with suitable example.
- 8. Illustrate various categories of data distribution.

PART C

- 1. Analyze the various classifications of analytics and compare the real time application use cases of each.
- 2. Narrate the importance of percentiles and moments in data analytics and also justify how they helpful in identifying similarities in data sets.
- 3. Analyze the impact of various tools used in big data analytics.
- 4.Calculate Mean, Median, Mode, Variance and Standard Deviation for the following data set (1,4,5,4,8). Write the definition and steps for the each.