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**Reg. No. :**

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**Question Paper Code: 52Q01**

M.E. DEGREE EXAMINATION, MAY 2018

Second Semester

Computer Science and Engineering

15PCS201 - DATA SCIENCE AND BIG DATA ANALYTICS

(Regulation 2015)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions

PART - A (5 x 20 = 100 Marks)

1. (a) Explain the applications of Big data Analytics CO1- U (20)  
Or  
(b) Explain the Business Drivers for Analytics CO1- U (20)
2. (a) Illustrate the data preparation phase by the analyst for the business model. CO2- U (20)  
Or  
(b) Explain the data analytic Life cycle CO2- U (20)
3. (a) Generate the example data to perform the hypothesis test in R Programming. CO3-App (20)  
Or  
(b) Use t-test to check all the differences of means. CO3-App (20)
4. (a) Describe K-Means algorithm and how will you initialize the clusters and pick the value for K. CO4- U (20)  
Or  
(b) Explain the Naive Bayesian classification with example. CO4- U (20)

5. (a) Explain Storage mechanism in H Base. Compare Row oriented and Column Oriented database structures. CO5- U (20)

Or

- (b) What are the advantages of Hadoop? Explain Hadoop Architecture and its components with proper diagram. CO5- U (20)
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