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Seat No.	

B.E. (CSE) (Semester - VIII) Examination, November - 2019
DATA ANALYTICS
Sub. Code : 67824

Day and Date : Wednesday 13-11-2019 **Total Marks :100**
Time : 2.30 p.m.to 5.30 p.m.

Instructions :
1) **Figures to the right indicates full marks.**
2) **Question no.4 & Question no.8 are compulsory.**
3) **Attempt any Two Questions from Q.1 to Q.3 and from Q.5 to Q.7.**

Q1) a) Discuss the phases in the development of Decision - support system? **[8]**

b) Explain the architecture of Data Warehouse. **[8]**

Q2) a) List and explain classes of Mathematical models? **[8]**

b) Explain data validation process in data preparation? **[8]**

Q3) a) Describe Map-Reduce Programming model with example? **[8]**

b) Explain HDFS Architecture and the working of Hadoop Heartbeat message in HDFS with diagram? **[8]**

Q4) Attempt Any Three: **[18]**

a) Discuss various applications of data mining.

b) Explain cube & Multidimensional Analysis

c) Write a note on types of decision

d) Write a note on YARN

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Q5) a) Explain structure of regression model along with simple linear regression **[8]**

b) Describe classification problem in data mining along with neat diagram? **[8]**

Q6) a) Explain single dimensional association rule? **[8]**

b) Explain K-means clustering Algorithm? **[8]**

Q7) a) Describe a matrix in R & manipulate with different commands? **[8]**

b) Write a note on reading and exporting Data from R? **[8]**

Q8) Attempt Any Three: **[18]**

a) Write a short note on different clustering techniques

b) Explain k-medoids clustering Algorithm

c) Describe Splitting rules in classification trees.

d) Explain creation of a matrix in R & manipulate with different commands

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