**SV-213**

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# B.E. (Computer Science & Engineering) (Semester-VIII) (Revised) Examination, May - 2018
# DATA ANALYTICS
## Sub. Code: 67824

**Day and Date : Friday, 04 - 05 - 2018** **Total Marks : 100**

**Time : 2.30 p.m. to 5.30 p.m.**

**Instructions :**
1) **Figures to the right indicate 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) Explain the phases in the development of Business intelligence system with the help of neat diagram. **[8]**

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

**Q2)** a) Discuss the different stages in the development of mathematical models for decision making with neat diagram. **[8]**

b) Explain in detail process of measures for univariate analysis? **[8]**

**Q3)** a) Describe Hadoop Ecosystem with diagram. **[8]**

b) Define Hadoop Distributed File System (HDFS) & Map Reduce? **[8]**

**Q4)** Write a note on (Attempt Any Three) : **[18]**

a) Data Warehouse Architecture

b) Classes of Mathematical models

c) Pig, HBase

d) Cube & Multidimensional Analysis

**Q5)** a) Discuss simple linear regression. **[8]**

b) Describe the structure and phases for learning methods for classification with a neat diagram. **[8]**

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**Q6)** a) Write Apriori Algorithm for extracting strong rules from transactions. **[8]**

b) Explain in detail any one algorithm used for partition methods. **[8]**

**Q7)** a) Write the different functions to handle the data in R workspace with an example. **[8]**

b) List and illustrate various types of R commands to import data. **[8]**

**Q8)** Write a note on (Attempt Any Three) : **[18]**

a) Multiple linear regression

b) Bayesian methods

c) Handling expression in R

d) Hierarchical clustering methods

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