

SV-213

Total No. of Pages : 2

Seat No.	
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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]**

P.T.O.

- 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

