

D-C-190198**B. Tech. EXAMINATION, 2019**

Semester VII (CBS)

BIG DATA ANALYTICS

IT-701

Time : 3 Hours

Maximum Marks : 60

The candidates shall limit their answers precisely within the answer-book (40 pages) issued to them and no supplementary/continuation sheet will be issued.

Note : Attempt Five questions in all, selecting one question from each Section A, B, C and D. Q. No. 9 is compulsory.

Section A

1. (a) What is big data ? Discuss, why is big data analytics important ? 6
- (b) Give a detailed note on features and limitations of R programming. 6

2. (a) What are the steps to build and evaluate a linear regression model in R ? 6
- (b) Compare Reporting and Analysis with its process. 6

Section B

3. Explain and compare different methods of clustering. 12
4. Explain Apriori algorithm with the help of suitable example. 12

Section C

5. Explain sentiment analysis. 12
6. Explain role of data streams mining in stock market prediction. 12

Section D

7. With a neat sketch explain processing data with Hadoop. 12
8. (a) Describe the working of map reduce with a relevant example. 6
- (b) What is NoSQL ? Differentiate between SQL vs NoSQL. 6

Section E
(Compulsory Question)

9. Answer the following :

- (a) List the different data structures in R.
- (b) What are the different features of Big data analytics ?
- (c) Discuss the necessity of keeping data secure while conducting analytics.
- (d) Define prediction error.
- (e) List the main feature of MapReduce.
- (f) Write about Data Science. 6×2=12

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