

MSC.III/01.21.002

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**M.Sc DEGREE THIRD SEMESTER EXAMINATION IN COMPUTER SCIENCE
(SOFT COMPUTING), JANUARY 2021
19-323-0311 BIG DATA ANALYTICS**

Time: 3 Hours

Maximum Marks: 50

**(Answer ANY FIVE questions)
(All questions carry EQUAL marks)**

1. a) Which are the three main types of analytics in big data? Explain in detail each of them. (5)
b) Discuss some areas in which decision-making processes are influenced by social network data. (5)
2. a) Explain in detail with an example the working of Map Reduce. (5)
b) Describe in detail the architecture of YARN. (5)
3. a) With neat diagram explain the architecture and working of SPARK. (5)
b) Explain in detail about SPARK streaming. Which are the two types of transformations on Dstreams. (5)
4. a) Which are the different types of NoSQL data models? Explain. (5)
b) Explain in detail about HBase. (5)
5. a) Explain in detail the architecture and the data models of HIVE. (5)
b) Explain the features of Hadoop. (5)
6. a) Write notes on MLib package of SPARK. (5)
b) List and discuss the different types of Graph operators available in SPARK Graphx package. (5)
7. Which are the different types of data visualizations? Explain any three techniques used for visual presentation of data. (10)
