

Question Paper

Exam Date & Time: 20-Nov-2018 (10:00 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

SCHOOL OF INFORMATION SCIENCES

SECOND SEMESTER MASTER OF ENGINEERING - ME (BIG DATA AND DATA ANALYTICS)

Architecture of Big Data Systems [BDA 604]

Marks: 100

Duration: 180 mins.

DEGREE EXAMINATION NOVEMBER 2018

Answer all the questions.

- 1) Write short note on: (10)
 1. Descriptive analytics
 2. Prescriptive analytics
- 2) Although Map-Reduce is a paradigm in computing batch views, Sometimes working with Map Reduce is tedious and limiting. How? (10)
- 3) Write a short note on Druid Data storage. (10)
- 4) List 5 Alternatives for Map Reduce. Explain how each of them differs from traditional Map Reduce. (10)
- 5) List the data storage requirements of speed layer. Comment on Asynchronous and synchronous updates. (10)
- 6) Differentiate between Incremental and Recomputational algorithms. (10)
- 7) Write a short note on Elephant DB and how does it meet the storage requirements of Serving Layer in Lambda Architecture. (10)
- 8) List the points, a software engineer, needs to consider while choosing a storage solution for batch layer. How does distributed File system work? (10)
- 9) Comment on Resilient distributed Datasets. (10)
- 10) List the problems faced earlier while storing Big Data in traditional DBs that lead to the development of Big data (10)

Technologies.

-----End-----