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Seventh Semester B.E. Degree Examination, Feb./Mar.2022
Big Data Analytics

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions, choosing ONE full question from each module.

Module-1

- 1 a. Discuss the Evolution of Big Data. (06 Marks)
 b. Explain the characteristics of Big Data. (04 Marks)
 c. With a neat block diagram, explain Data Architecture Design. (10 Marks)

OR

- 2 a. Write notes on Analytics Scalability to Big Data and Massive Parallel Processing Platforms. (12 Marks)
 b. Highlight Big Data Analytics applications with one case study. (08 Marks)

Module-2

- 3 a. What are the core components of Hadoop? Explain in brief its each of its components. (10 Marks)
 b. Explain Hadoop Distributed File System. (10 Marks)

OR

- 4 a. Define MapReduce Frame work and its functions. (06 Marks)
 b. Write down the steps on the request to MapReduce and the types of process in MapReduce. (10 Marks)
 c. Write short notes on Flume Hadoop Tool. (04 Marks)

Module-3

- 5 a. Discuss the characteristics of NoSQL data store along with the features in NoSQL transactions. (08 Marks)
 b. With neat diagrams, explain the following for shared-Nothing Architecture for Big Data Tasks.
 (i) Single Server model
 (ii) Sharding very large databases
 (iii) Master Slave distribution model.
 (iv) Peer-to-Peer distribution model. (12 Marks)

OR

- 6 a. Define key-value store with example. What are the advantages of key-value store? (10 Marks)
 b. Write down the steps to provide client to read and write values using key-value store. What are the typical uses of key value store? (10 Marks)

Module-4

- 7 a. With a neat diagram, explain the process in MapReduce when client submitting a Job. (10 Marks)
 b. Explain Hive Integration and work flow steps involved with a diagram. (10 Marks)

Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.
 2. Any revealing of identification, appeal to evaluator and/or equations written eg. 42-8 = 30, will be treated as malpractice.

Solved Question Paper

Sebastian Brünink

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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