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MCA

(SEM V) THEORY EXAMINATION 2017-18
BIG DATA

Time: 3 Hours

Notes: Attempt all Sections. Assume any missing data.

Total Marks: 100

Section A

1. Attempt all parts:

(10X2=20)

- What is Big Data? Explain with an example.
- Define the various file formats supported by HIVE.
- Compare & Contrast NOSQL relational Database.
- List four disadvantages of aggregate Oriented Database.
- What is Map reducing?
- State the purpose of Hadoop pipes.
- How the pig programs can be packaged?
- List down the entities of YARN.
- Specify the role of job tracker & task tracker in HDFS.
- What is wrapper class and list out the wrapper classes in java?

Section B

2. Attempt any five parts.

(10X5=20)

- Explain with neat sketch about the processing of a job in hadoop.
- Explain the role of driver code, mapper code and reducer code with in a map reduce program model by a suitable example.
- Explain the Master slave and peer-peer replication in detail.
- Explain about the various data types supported by pig in its data model with an example.
- Explain about various data types supported by HIVEQL with an example.
- List and discuss various dimensions of Big data.
- What do you mean by serialization and how should be the RPC serialization format?
- Explain the architecture of HIVE with neat sketch.

Section C

Attempt any two parts.

(15X2=30)

- Distinguish between the old and new versions of Hadoop API for Map Reduce frame work.
- How do you analyze Big Data? Explain in detail with industry examples.
- Explain these terms with an example
 - Cassandra Data Model
 - Crowd Sourcing Analytics