

B.Tech. VIII Sem. (Main/Back) Examination, June - 2022
Computer Sc. & Engg.
8CS4-01 Big Data Analytics

Time : 3 Hours

Maximum Marks : 120

Min. Passing Marks : 42

Instructions to Candidates:

Attempt all ten questions from Part A, five questions out of Seven from Part B and Four questions out of Five from Part C.

Schematic diagrams must be shown wherever necessary. Any data you feel missing suitably be assumed and stated clearly. Units of quantities used/calculated must be stated clearly.

Use of following supporting material is permitted during examination. (Mentioned in form No.205)

PART - A

(Answer should be given up to 25 words only)

All questions are compulsory.

(10×2=20)

- ①. What are the three V's of Big data?
- ②. What is Hadoop API.
- ③. Why Hadoop is used in Big data analytics?
- ④. Differentiate between combiner and partitioner.
- ⑤. Differentiate between object writable and generic writable?
- ⑥. What is google file system.
7. What is Driver code.
- ⑧. Explain Pig Script Interfaces.
9. List some issues and challenges in data stream query processing.
- ⑩. What is Hive data manipulation language?

PART - B

(Analytical/Problem solving questions)

Attempt any **Five** questions.

(5×8=40)

1. What is HDFS? List all the components of HDFS and explain any four components.
2. What is the role of a "combiner" in the map reduce framework? Explain with the help of one example.
3. How can implementing a Row comparator for speed?
4. How can creating and managing databases and tables? Explain it.
5. Explain the principles to be considered while writing pig scripts.
6. Explain the application flow of pig latin.
7. Explain the creating, dropping and altering databases using APACHE Hive.

PART - C

(Descriptive/Analytical/Problem Solving/Design questions)

Attempt any **Four** questions.

(4×15=60)

1. Explain HDFS architecture with diagram.
2. Explain the building blocks of Hadoop. Draw the block diagram and explain all the blocks separately. Also draw the flow diagram of building blocks of Hadoop.
3. Write the Java code for MAP and REDUCE of word count problem. Describe the steps of compiling and removing the map reduce program.
4. Explain the working through the ABC's of Pig data. How can check out the pig script interfaces.
5. What are Wrapper classes? List and explain wrapper classes available for primitive types?

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