Roll No.

7E1724

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B. Tech. VII - Sem. (Main) Exam., Feb.- March - 2021
PCC Information Technology
7IT4 – 01 Big Data Analytics

[To be converted as per scheme]

Time: 2 Hours

Max. Marks: 82
Min. Marks: 29

Instructions to Candidates:

Attempt all ten questions from Part A, *four questions out of seven questions from Part B and two questions out of five from Part C.*

Schematic diagrams must be shown wherever necessary. Any data you feel missing may 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)

1. NIL _____ 2. NIL _____

PART – A

(Answer should be given up to 25 words only)

[10×2=20]

All questions are compulsory

Q.1 What is Hadoop Distribution File System? [2]

Q.2 Write down the difference between Pseudo distributed mode and Fully distributed mode. [2]

Q.3 What is Pig Script interfaces? [2]

Q.4 What is ABCs of Pig Latin? [2]

Q.5 What is Mapper code? [2]

Q.6 Write down the features of configuring XML files. [2]

Q.7 What is Job Tracker in building blocks of Hadoop? [2]

Q.8 Write down the types of data. [2]

Q.9 What is Google File System? [2]

Q.10 What is the meaning of Hive Clients? [2]

PART – B

(Analytical/Problem solving questions)   [4×8=32]

Attempt any four questions

[8]

Q.1 How the Hive Data Manipulation Language Works?   [8]

Q.2 Explain the Application flow of Pig Latin.   [8]

Q.3 How can Examining the Hive Clients? Explain it properly.   [8]

Q.4 Explain the scripting with Pig Latin with the help of block diagram.   [8]

Q.5 How can Creating and Managing Databases and Tables? Explain it.   [8]

Q.6 Explain the architecture of Hadoop Distributed File System (HDFS). Explain.   [8]

Q.7 How can implementing a Raw Comparator for speed?   [8]

PART – C

(Descriptive/Analytical/Problem Solving/Design Questions)   [2×15=30]

Attempt any two questions

Q.1 Explain the complete building blocks of Hadoop. Draw the block diagram and explain all the blocks separately. Also draw the flow diagram of building blocks of Hadoop.   [15]

Q.2 What is Hadoop API? Explain Hadoop API for MapReduce framework (old and new). https://www.rtuonline.com   [15]

Q.3 How can implementation a raw comparator for speed? Explain the flow diagram of this and also write the advantages of this method.   [15]

Q.4 Explain the working through the ABCs of Pig Latin. How can check out the Pig Script interfaces?   [15]

Q.5 Explain how the Hive is put together also explain the working with Hive Data Types.   [15]