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END TERM EXAMINATION - January-2023 SEMESTER - VII (B.Tech. CSE DS/AI)

Subject Code: CDS4001 Subject: Data Science

Duration: 3 hours Max. Marks: 100

Instructions

- All Questions are compulsory
- The Question paper consists of 2 sections Part A contains 10 questions of 2 marks each. Part B consists of 5 questions of 16 marks each.
- There is no overall choice. Only Part B question include internal choice.

PART - A (2 * 10 = 20 Marks)

- 1. What is MapReduce in Hadoop?
- What are the 5V's of Big Data?
- 3. What are the Features of Hive?
- 4. What is Brute Statistics?
- 5. Explain Data Node.
- Explain Data Science.
- 7. Explain HDFS and It's Characteristics.
- 8. What is Veracity?
- 9. Explain the Types of Data.
- 10. What are the Model Requirements while transforming

PART - B (16 * 5 = 80 Marks)

- M.a) Elaborate the term 'Big Data'. Paraphrase it's important characteristics in detail. OR
 - b) Elaborate the term SQOOP? Quote it's functionality an application in the field of Big Data. (4+12)
- 12at) Paraphrase the working of Map Reduce in Hadoop? Categorize it and explain the functionality of each phase and Quote the example of Word Count. (4+12) OR
 - b) Introduce HDFS? Justify Master Slave architecture of HDFS with clear representation. (4+12)
- 13.a) Introduce Software Development Life Cycle. Quote the phases of it. Paraphrase about each phase with a clear representation with a live scenario. (2+4+10)OR
- b) Explain in detail the recent project developed by you in Data Science with clear abstract, chronology and prototype. (16)
- 14. a) Introduce Data science? What is it's association with Machine Learning and Artificial Intelligence? Explain clearly the importance of each term in the field of Computer Science. (2+4+10)

OR

b) What is Data visualization? And What are the common graphs used in Data visualization? (4+12)

15. a) Elaborate Big SQL? Elaborate its characteristics in detail. (4+12)

OR

b) Quote and Elaborate the term 'Hadoop'. Justify the

importance of Hadoop framework in the field of DS.

(4+12)