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SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR
(AUTONOMOUS)B.Tech IV Year I Semester Regular Examinations February-2022
BIG DATA ANALYTICS

(Computer Science and Engineering)

Time: 3 hours

Max. Marks: 60

PART-A

(Answer all the Questions 5 x 2 = 10 Marks)

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|---|--|----|----|
| 1 | a What are the four V's of big data? | L1 | 2M |
| | b What is name node and data node? | L1 | 2M |
| | c What is the role of combiner and partitioner in mapreduce application? | L1 | 2M |
| | d What are pig Latin relational operators? | L1 | 2M |
| | e What are the advantages of Hive query language? | L1 | 2M |

PART-B

(Answer all Five Units 5 x 10 = 50 Marks)

UNIT-I

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|---|---|----|----|
| 2 | a List the Top challenges facing big data. | L1 | 5M |
| | b What is the Significance of big data analytics? | L1 | 5M |

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| 3 | What is Big Sheets? What can be done with big sheets? | L1 | 10M |
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UNIT-II

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| 4 | What is an interface? Explain Hadoop system interfaces | L1 | 10M |
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| 5 | Elaborate the AVRO file format with a diagram. | L6 | 10M |
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UNIT-III

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| 6 | Examine the different types of Job Scheduling process in Map Reduce. | L2 | 10M |
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| 7 | a What are the Properties in Task Execution Environment? | L1 | 5M |
| | b Discuss about Speculative Execution and its Properties. | L2 | 5M |

UNIT-IV

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|---|--|----|-----|
| 8 | What is PIG? How to Install and execute PIG on Hadoop Cluster? | L1 | 10M |
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| 9 | a Explain Arithmetic Operators in Pig Latin. | L2 | 5M |
| | b Explain Relational Operators in Pig Latin. | L1 | 5M |

UNIT-V

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|----|---|----|-----|
| 10 | Explain about Hive query language. What is Metastore in Hive? | L2 | 10M |
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| 11 | a Explain about IBM Big SQL. | L2 | 5M |
| | b Explain user defined functions in Hive. | L1 | 5M |

END