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SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR
(AUTONOMOUS)

B.Tech III Year II Semester Regular Examinations August-2022

BIG DATA ANALYTICS

(Common to CSE & CSIT)

Time: 3 hours

Max. Marks: 60

(Answer all Five Units 5 x 12 = 60 Marks)

UNIT-I

- 1 a Examine the different types of digital data with examples? L4 6M
b Discuss Big Data in terms of three dimensions, volume, variety and velocity. L2 6M

OR

- 2 Explain the difference between structure, unstructured and semi-structure data with an examples. L4 12M

UNIT-II

- 3 What are the advantages of Hadoop? Explain Hadoop Architecture and its Components with proper diagram. L3 12M

OR

- 4 a What is an interface? Establish the Hadoop system interfaces. L3 6M
b Discuss about the Hadoop Archives and its Limitations. L2 6M

UNIT-III

- 5 a What are the different types of failures in Classic MapReduce? L1 6M
b What are the different types of failures in YARN? L1 6M

OR

- 6 a What are the Properties in Task Execution Environment? L1 6M
b Discuss about Speculative Execution and its Properties. L2 6M

UNIT-IV

- 7 What is Pig? How to Install and execute PIG on Hadoop Cluster. L2 12M

OR

- 8 a Explain about Arithmetic Operators in Pig Latin . L2 6M
b Find the Grouping and Joining Data in Pig Latin. L3 6M

UNIT-V

- 9 a Draw a neat sketch of Hive architecture. L3 4M
b Explain about components of Hive architecture. L2 8M

OR

- 10 Explain with a neat diagram the architecture of Hbase. L2 12M

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