

Examination: Even Semester Examination 2023

M.Tech. (DS) Semester Examination 2023

Paper Name: Big Data Analytics (Program Elective – III) Paper Code: MTDS PE232

Time: 2.5 Hours

Maximum Marks: 60

Note: Mobile Phones or programmable calculators or any equipment with memory are not allowed inside the examination hall. Follow proper numbering for answering the questions.

Section- A

4 X 5 =20

(ALL questions are compulsory in this Section)

S.No.	Question	Marks	CO	BL
1	Explain in detail the concept of Big Data Analytics. State any two examples.	5	CO1	L1
2	Explain the terms: i). HIVE ii). PIG Model	5	CO5, CO6	L2
3	What are the benefits of Big Data in the IT sector? Explain 5V's of Big Data with an example.	5	CO1, CO2	L2
4	Explain the characteristics of Big Data.	5	CO1, CO3	L4

Section-B

4 X 10 =40

(Attempt any **FOUR** Questions from this Section)

S.No.	Question	Marks	CO	BL
1	What is Hadoop and what are its components? Explain Hadoop Architecture? What are the real-time industry applications of Hadoop?	10	CO1	L5
2	What is Casandra Data Model? What are its Clients? Discuss With example?	10	CO6	L5
3	Explain the concept of HDFS? Describe namenode, datanode and block? Explain HDFS operations in detail?	10	CO2	L3
4	Explain the Map Reduce Model. What are the main components of Map Reduce? Explain with the help of an example.	10	CO3 CO4 CO5	L6
5	Differentiate between YARN Vs MapReduce in Big data. State different applications of YARN? What is the use of YARN in cloud computing?	10	CO4	L6
6	Write a short note on the following (Attempt any TWO): i). Sparse dataset ii). HBase Model iii). NoSQL	10	CO1 CO3 CO6	L6

BLOOMS TAXONOMY LEVELS (BL)

**1-REMEMBERING, 2-UNDERSTANDING, 3-APPLYING, 4-ANALYSING,
5-EVALUATING, 6-CREATING**