

**TILAK MAHARASHTRA VIDYAPEETH, PUNE**  
**MASTER OF COMPUTER APPLICATIONS**  
**(Specialization in Data Science)**  
**EXAMINATION : JANUARY - 2025**  
**SEMESTER - II**  
**Sub: Big Data Analytics (MCDS 23-203)**

Date :11/01/2025

Total Marks :60

Time: 02.00 pm to 04.30 pm

**Instruction:**

1. All questions are compulsory unless and otherwise stated.
2. Bold figures to the right of every question are the maximum marks for that question.
3. Candidates are advised to attempt questions in order.
4. Answers written illegibly are likely to be marked zero.
5. Use of scientific calculators, Log tables, Mollier Charts is allowed.
6. Draw neat and labelled diagram wherever necessary.

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**Q.1. Answer the following in 2-3lines. (Any 5) (10)**

1. List out technologies supporting to big data
2. What is Big Data?
3. What is Hadoop?
4. Define Pig.
5. Define Hive.
6. What is the role of job tracker?
7. List out features of Hadoop.

**Q. 2. Answer the following in short. (Any 4) (20)**

1. Write a short note on structured data.
2. Write a note on: Batch processing in Hadoop.
3. Write a note on : MapReduce Mode
4. What is sqoop? Explain features of sqoop.
5. What are the various V's in big data? Explain briefly.
6. Differentiate between Hadoop 1.x & Hadoop 2.x

**Q. 3. Answer the following in detail. (Any 3) (30)**

1. Differentiate between Traditional data and Big Data.
  2. Describe Hadoop Distributed File System.
  3. Explain input file formats in details.
  4. Explain hive data types.
  5. Explain YARN architecture in detail.
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