



ST. JOSEPH'S COLLEGE (AUTONOMOUS), BENGALURU -27
BCA(DATA ANALYTICS) – V SEMESTER
SEMESTER EXAMINATION: OCTOBER 2022
 (Examination conducted in December 2022)
BCADA5421: ENABLING DATA ANALYTICS

Time: 2 ½ Hours

Max Marks: 70

This paper contains ONE printed pages and THREE parts

PART- A

Answer ALL the questions

(10x1=10)

1. Who developed Hive?
2. Where is metadata stored?
3. How often is a heartbeat sent to name node?
4. Who conducts an election between ANN and PNN?
5. Default configurations are stored on the cluster in which format files?
6. Who provides access to a cluster in Hadoop?
7. What is the internal server of Hive?
8. What type of Hive table is best for storing sensitive data?
9. What kind of evaluation is performed by Pig commands?
10. What is considered a semi reducer?

PART- B

Answer any SIX of the following

(6x5=30)

1. How does a secondary name node differ from the name node in HDFS?
2. Describe the 4Vs of big data.
3. How is data loss prevented?
4. Explain security in Hadoop.
5. Show the word count problem with a neat diagram.
6. Differentiate between Managed and External tables in Hive.
7. Explain the use of Pig Latin over Map reduce programs on Java.
8. Explain the data structure hierarchy in Hive.

PART-C

Answer any THREE of the following

(10x3=30)

1. How does the Hadoop architecture differ from conventional architecture?
2. Explain 1x architecture of Hadoop with a neat diagram.
3. Explain the operators supported by pig with respect to data access, transformations and debugging operations.
4. Explain Hive architecture with a neat diagram.