Registration Number:

Date & session:

ST JOSEPH'S UNIVERSITY, BENGALURU -27 M.SC (BIG DATA ANALYTICS) – II SEMESTER SEMESTER EXAMINATION: APRIL 2024

(Examination conducted in May / June 2024)

BDA2421 – ENABLING TECHNOLOGIES FOR DATA SCIENCE I

(For current batch students only)

Time: 2 Hours Max Marks: 50

This paper contains ONE printed page and THREE parts

PART - A

Answer ALL Questions

5 X 2 = 10

- 1. What are the main components of Hadoop ecosystem?
- 2. Explain heartbeat
- 3. Explain Apache Ambari.
- 4. When is Pig preferred over Hive?
- 5. Write about Hive schema.

PART - B

Answer ANY FIVE Questions

5 X 4 = 20

- 6. What was the need for Hadoop to be developed?
- 7. How is a secondary name node different from a primary name node?
- 8. How is security prioritised in Hadoop?
- 9. Describe balancer.
- 10. Differentiate between the types of Hive tables.
- 11. Explain Sqoop.
- 12. When is using Hadoop a bad idea?

PART - C

Answer ANY TWO Questions

2 X 10 = 20

- 13. Explain the idea of data and metadata persistence in Hadoop 2x systems.
- 14. Explain Erasure coding in Hadoop 3x.
- 15. Explain map reduce with an example.