

Code: IT8T2D

**IV B.Tech - II Semester – Regular/Supplementary
Examinations – July 2021**

**BIG DATA ANALYTICS
(INFORMATION TECHNOLOGY)**

Duration: 3 hours

Max. Marks: 70

PART – A

Answer *all* the questions. All questions carry equal marks

11x 2 = 22 M

1.

- a) Define the term "Big Data"
- b) State the importance of VMware.
- c) What is HDFS?
- d) What do you mean by Namenodes and Datanodes in HDFS?
- e) How do you analyze data with unix tools in Map Reduce?
- f) Classify the combiner functions in Map Reduce.
- g) List the Input formats in Map Reduce.
- h) Write a short note on Map reduce joins.
- i) List the significance of Hive QL Data Types.
- j) What is Avro in hadoop ecosystem?
- k) Examine the scope of Hive QL functions.

PART – B

Answer any **THREE** questions. All questions carry equal marks.

3 x 16 = 48 M

2. a) Explain the importance of Big Data with an example. 8 M
- b) Illustrate about Hadoop EcoSystem. 8 M
3. Explain in detail about Java Interface to Hadoop with an example. 16 M
4. Explain MR Unit test approach in Map Reduce Application. 16 M
5. a) What do you mean by Classic Mapreduce, explain Task Assignment and Task Execution. 10 M
- b) Demonstrate the Map Reduce Types. 6 M
6. a) Explain in detail about Hive Architecture with neat diagram. 10 M
- b) Discuss Java and Mapreduce clients in brief. 6 M