

Seat No. **MAR_APR 2025 SUMMER EXAMINATION****11731 Bachelor of Technology (NEP-2.0)****Sub. Name: Big Data Analytics****Sub. Code: 67824/84719/84985****Day and Date: MAY ,15-05-2025****Total Marks: 70****Time: 10:30 AM To 01:00 PM**

Instructions: 1. All questions are compulsory
 2. Assume suitable data wherever necessary and mention it boldly
 3. Draw neat labelled diagrams wherever necessary

- Q1)** Solve any two of following. [14]
- Define Big Data? Explain various ('V') characteristics of Big Data. [7]
 - With neat diagram, explain Hadoop Ecosystem? [7]
 - Define MapReduce? Explain the functions used in working of MapReduce. [7]
- Q2)** Solve any two questions. [14]
- Explain the architectural components of Big Data? [7]
 - Explain the architecture of HDFS with neat diagram? [7]
 - Explain rmr and rhdfs packages functions? [7]
- Q3)** Solve any two questions. [14]
- Explain data analytic project life-cycle stages? [7]
 - Briefly explain the core components in Spark. [7]
 - Write a short note on Resilient Distribution Dataset (RDD) [7]
- Q4)** Solve any two of following. [14]
- Explain the architectural components of Big Data? [7]
 - Explain different phases of MapReduce with an example? [7]
 - Explain different types of Machine Learning Algorithms. [7]
- Q5)** Solve any two questions. [14]
- Explain Unsupervised Machine Learning Algorithm. [7]

- b. Write a short note on Monetization driver in Big Data? [7]
- c. Explain preprocessing and performing analytics over any data? [7]

End Of Question Paper

Important Note for Chief Exam Officer / SRPD Coordinator / Sr Supervisor/ Student -

This Question Paper may be distributed for following Subjects as common code.

सदरची प्रश्नपत्रिका खालील विषयांकरिता वितरित करता येईल.

- 1] (1154) B.Tech. CBCS (84719) Big Data Analytics Part 4 SEM 8
- 2] (101) Bachelor of Engineering (84985) Big Data Analytics Part 4 SEM 8
- 3] (101) Bachelor of Engineering (67824) Data Analytics Part 4 SEM 8