

Code No: J4002/R16

M. Tech. II Semester Supplementary Examinations, October-2021

BIG DATA ANALYTICS

Common to Information Technology (40), Computer Science (05), Computer Science & Technology (59), Computer Science & Engineering (58), Computer Networks(88) and Computer Networks & Information Security (84)

Time: 3 Hours

Max. Marks: 60

*Answer any FIVE Questions
All Questions Carry Equal Marks*

1. a What do you mean by linear and non-linear data structures? Specify the sets are comes under linear or non-linear and explain the various types of sets supported by java. 6M
- b What is the advantage of object serialization in java and explain about serializing & de-serializing an object with suitable examples. 6M
2. a Explain the hadoop distributed file system architecture with a neat sketch. 6M
- b Define Data node? How does name node tackle data node failures? 6M
3. a Write Map Reduce steps for counting occurrences of specific numbers in the input text file(s). Also write the commands to compile and run the code. 6M
- b What are core methods of a reducer? What happens if you try to run a Hadoop job with an output directory that is already present? 6M
4. a Explain the significance of Writable interface along with Writable Comparable and comparators w.r.to implementing the serialization. 6M
- b Discuss in brief about the writable wrappers for Java primitives. 6M
5. a What is Hive meta store? Which classes are used by the Hive to Read and Write HDFS Files? 6M
- b Explain about the various data types supported by pig in its data model with an example. 6M
6. a How can we install the Apache Hive on the system – Explain. 6M
- b How the pig programs can be packaged and explain the modes of running a pig script with a neat sketch. 6M
7. a How can you Configure Hadoop cluster in Local mode? 6M
- b Explain the procedure for Installing Hadoop in Pseudo Distributed Mode. 6M
8. a How to Creating and Managing Databases and Tables in hive? 6M
- b Explain how big data processing differs from distributed processing. 6M

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