

M.C.A.- II (Two Year Programme) (NEW / CBCS Pattern) Sem-III
PMCAT303-Paper-III : Big Data & Hadoop

P. Pages : 1

Time : Three Hours



GUG/W/22/13649

Max. Marks : 80

- Notes :
1. All questions are compulsory and carry equal marks.
 2. Draw neat and labelled diagrams wherever necessary.
 3. Avoid vague answers and write answers relevant and specific to questions only.

Either:

1. a) What is Big data? Explain Importance of it. 8
- b) What is MapReduce? Explain in detail with suitable example. 8

OR

- c) Explain following in detail. 8
- i) Data serialization ii) Hadoop Ecosystem.
- d) Explain different applications of Big Data? 8

Either:

2. a) Explain any four Hadoop shell command in detail. 8
- b) Explain HDFS in detail with suitable example. 8

OR

- c) Explain Hadoop Architecture in detail. 8
- d) Explain the anatomy of file read and write in Hadoop. 8

Either:

3. a) Explain in detail. 8
- i) MRv2 ii) YARN
- b) Explain fair scheduler and capacity scheduler in detail. 8

OR

- c) Write detail note on Hadoop 2.0. Also explain its new features in detail. 8
- d) Explain Monitoring and Maintenance in HDFS Administration. 8

Either:

4. a) Explain Hive Architecture and its different components in detail. 8
- b) Explain about the different types of joins in Hive in detail. 8

OR

- c) Write a detail note on HIVE QL. 8
- d) Explain the methods of zookeeper class in detail. 8

5. Attempt all the questions.
- a) What is Data serialization? 4
- b) Explain Task trackers in detail. 4
- c) Write a note on MRv1. 4
- d) What is Map Reduce Scrip? Explain with an example. 4
