

PSG'COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

MSc DECREE EXAMINATION MAY 2019
(Third Semester)

Branch - **COMPUTER SCIENCE**

DATA SCIENCE IN CLOUD COMPUTING AND BIG DATA

Time : Three Hours

Maximum : 75 Marks

SECTION -A (30 Marks)

Answer **ALL** questions

ALL questions carry **EQUAL** Marks (5 x 6 = 30)

- 1 a Write short notes on technologies for Network based systems.
OR
b Explain the concept of physical and virtual clusters.
- 2 a Expound resource provisioning and platform deployment.
OR
b Draw neat diagram of google file system architecture and explain it.
- 3 a Write brief note on distributed computing in big data.
OR
b Explain Hadoop distributed file system in big data.
- 4 a Elucidate characteristics of big data analysis.
OR
b Write short note on data streaming.
- 5 a Explain four stages of the planning process that applies to big data.
OR
b What are the ten big data best practices? Explain it.

.SECTION -B (45 Marks)

Answer any **THREE** questions

ALL questions carry **EQUAL** Marks (3 x 15 = 45)

- 6 Discuss in detail about different cloud models and its services.
- 7 Illustrate Map Reduce Framework.
- 8 Describe operational databases in big data management.
- 9 Write detail note on text analytics.
- 10 Describe do's and don'ts in big data.