

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

MSc DEGREE EXAMINATION MAY 2018
(Third Semester)

Branch – **COMPUTER SCIENCE**

DATA SCIENCE IN CLOUD COMPUTING & 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 What is meant by Paas? Explain with an example.
OR
b Write a note on cloud services.
- 2 a Briefly explain the inter cloud resource management.
OR
b Briefly describe about Open Nebula.
- 3 a Write the features of cloud and big data.
OR
b Give a note on Map Reduce functions.
- 4 a Give a brief account on security and governance for big data environments.
OR
b What are the customized approaches for analysis of big data?
- 5 a Write down the importance of big data in business.
OR
b Discuss about business processes with big data analytics.

SECTION -B (45 Marks)

Answer any **THREE** questions

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

- 6 Write a detailed account on the tools and mechanisms of virtualization.
- 7 Explain in detail the parallel and distributed programming paradigm.
- 8 Elaborate the components of big data technology.
- 9 Explain in detail the real-time streaming process and complex event process of big data.
- 10 Describe the purpose of ten big data best practices.