

PSG COLLEGE OF ARTS & SCIENCE  
(AUTONOMOUS)

MCA DEGREE EXAMINATION MAY 2018  
(Fourth Semester)

Branch - COMPUTER APPLICATIONS

**CORE ELECTIVE-II : BIG DATA ANALYTICS**

Time: Three Hours

Maximum: 75 Marks

**SECTION -A (30 Marks)**

Answer ALL questions

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

- 1 a Give a short note on the evolution of Data Management.  
OR  
b Explain the process of managing big data.
- 2 a What are challenges raised in the security infrastructure for Big Data?  
OR  
b List out the technologies in the organizing Data Services and Tools layer.
- 3 a Discuss the importance of virtualization to Big Data.  
OR  
b What are the four types of cloud delivery models? Explain them.
- 4 a Narrate the characteristics of Non relational database technologies.  
OR  
b Give a brief account on Post GIS / Open GEO suite.
- 5 a Write a short note oh advanced analytics.  
OR  
b Explain the characteristics of Big Data analysis.

**SECTION -B 145 Marks!**

Answer any THREE questions

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

- 6 Describe the Big Data Management Architecture with a neat diagram.
- 7 Explain the layer 0 of Big Data Technology Stack.
- 8 Discuss how virtualization of servers, storage, applications, data, networks, processors, memory and services elements across if IT environment can have a positive impact on big data analysis.
- 9 What is a document database? Explain the two popular document database.
- 10 Explain any three Big Data Analytics in detail.

Z-Z-Z

END