

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BCom DEGREE EXAMINATION DECEMBER 2022
(Third Semester)

Branch – COMMERCE (BUSINESS ANALYTICS)

NO SQL – MONGODB

Time: Three Hours

Maximum: 50 Marks

SECTION-A (5 Marks)

Answer ALL questions

ALL questions carry EQUAL marks

(5 x 1 = 5)

- 1 Which of the following language is MongoDB written in?
(i) Javascript (ii) C
(iii) C++ (iv) All of the mentioned
- 2 Which of the following format is supported by MongoDB?
(i) SQL (ii) XML
(iii) BSON (iv) All of the mentioned
- 3 Initial release of MongoDB was in the year?
(i) 2000 (ii) 2005
(iii) 2009 (iv) 2011
- 4 MongoDB has been adopted as _____ software by a number of major websites and services.
(i) Frontend (ii) Backend
(iii) Proprietary (iv) All of the mentioned
- 5 MongoDB is a _____ database that provides high performance, high availability and easy scalability.
(i) Graph (ii) Key value
(iii) Document (iv) All of the mentioned

SECTION - B (15 Marks)

Answer ALL Questions

ALL Questions Carry EQUAL Marks

(5 x 3 = 15)

- 6 a Write short notes about the CAP Theorem?
OR
b Define Big databases and SQL?
- 7 a Explain the concept of parsing XML in data fundamentals?
OR
b Differentiate the \$in and \$all Operators?
- 8 a Write short notes on Field queries in data analysis?
OR
b Explain the sorting process with examples?
- 9 a Elaborate the concept of Data Sharding ?
OR
b Explain about the objectid in Mango DB?

Cont...

- 10 a Explain the Text processing with example?
OR
b Discuss briefly the need of Regular Expression?

SECTION -C (30 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks

(5 x 6 = 30)

- 11 a Write the differences between MongoDB and RDBMS?
OR
b Explain the various types of databases?
- 12 a Explain the Database creation in MongoDB?
OR
b Explain the following entries (i) \$update (ii) \$set() (iii) \$unset
- 13 a Explain the Aggregation framework with examples?
OR
b Explain the Aggregation operators \$ match, \$project, \$group in MongoDB?
- 14 a Illustrate the concept of Data Replication in Servers?
OR
b Explain the Relationships process in User Management?
- 15 a Explain the concept of Map Reduce with examples?
OR
b Explain how to handle text large datasets in MongoDB?

Z-Z-Z

END