PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BCom DEGREE EXAMINATION DECEMBER 2019
(Third Semester)

Branch - **COMMERCE (BUSINESS ANALYTICS)**

<u>NOSOL-MONGODB</u>

Three Hours   Maximum: 75 Marks
<u>SECTION-A (10 Marks')</u>
Answer **ALL** questions
ALL questions carry **EQUAL** marks   (1 0 x 1 = 10)

1   Which of the following is a NoSQL Database type?
(i)   SQL   (ii) Document Databases
(iii) JSON   (iv) Redis

2   Mongo DB scales horizontally using_____ for load balancing purpose.
(i) Replication   (ii) Partitioning
(iii) Sharding   (iv) None

3   In MongoDB,   operation modify the data of a single collection,
(i) CRUD   (ii) Grid
(iii) READ   (iv) All of the above

4   ____method render the document in a JSON-like format.
(i) Displayjson   (ii) Print
(iii) Print)son   (iv) Printdoc

5   ____ calculates aggregate values for the data in a collection
(i) db.collection.aggregate   (ii) db.collection.agg
(iii) db.collection.pipeline   (iv) all of the mentioned

6   filters the document stream to allow only matching document to pass
unmodified into the next pipeline stage.
(i) Sregex   (ii) Sreg
(iii) Smatch   (iv) None of these

7   The_____ field is always the first field in the document.
(i) id   (ii) id
(iii) Ob- id   (iv) noid

8   MongoDB supports sharding through the configuration of a sharded_____ .
(i) Shapes   (ii) Clusters
(iii)Sets   (iv) one of these

9   Which of the following database command is used for map reduce function?
(i) Mapreduce   (ii) MapperRed
(iii) Redmap   (iv) Both a) and b)

     MongoDB applies the   phase to each input document in map reduce,
     (i) Map   (ii) Reduce
     (iii) Mapper   (iv) All of the above

Cont...

SECTION - B (35 Marks)
Answer **ALL** Questions
ALL Questions Carry **EQUAL** Marks (5 x 7 = 35)

11 a Discuss about CAP Theorem.

OR

   b Write the difference between MongoDB and RDBMS,

12 a How to parsing XLS with XLRD Parsing XML?

OR

   b Elaborate the CURD operation in Mongo.

13 a Discuss about Field queries in Mongo with an example.

OR

   b Explain sorting in Mongo DB with suitable codes.

14 a Describe about Data Sharding.

OR

   b How to create backup in Mongo with an example.

15 a Elucidate about Regular Expression in Mongo.

OR

   b Wri^e short notes on Advanced MongoDB.

SECTION - C (30 Marks)
Answer any **THREE** Questions
ALL Questions Carry **EQUAL** Marks (3 x 10 = 30)

16   Summarize about MongoDB Driver Installation and configuration.

17   Explain the following statements in MongoDB with an example
    i) Update ii) Read and iii) Delete

18   Elaborate on Aggregation operators with an example.

19   Estimate the MongoDb indexes with an suitable code.

20   Illustrate about Text processing for large dataset with an example.

Z-Z-Z   END