

M.Sc. (I.T. & C.A.) Semester - 1 (CBCS) Examination**October/November-2018 (New Course)****NoSQL DATABASE - MongoDB
(CS-03)****Time: 2:30 Hours****Marks: 70****Instructions:**

1. All questions are compulsory.
2. Figures to the right indicate marks.

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- Que-1 (A) Objective Type Questions, Attempt all questions. (03)
- 1) Which language is used to write mongodb?
 - 2) List out the NoSQL flavors/categories.
 - 3) Give an example of Graph based databases.
- (B) Answer in brief. (Any Two) (06)
- 1) Explain the Data Model and working with Data in detail.
 - 2) Explain MongoDB – A document based NoSQL database in detail.
 - 3) Define NoSQL.
- (C) Write a note on. (Any One) (05)
- 1) While creating Schema in MongoDB what are the points need to be taken in consideration?
 - 2) Define BASE theorem and explain all its property.
- Que-2 (A) Objective Type Questions, Attempt all questions. (03)
- 1) Which type of data mongodb store?
 - 2) What is the use of db command?
 - 3) Which function is used to display all the information about php configuration and its driver on web page?
- (B) Answer in brief. (Any Two) (06)
- 1) How to remove document using PHP script.
 - 2) What is an embedded document?
 - 3) Explain find and find One method.
- (C) Write a note on. (Any One) (05)
- 1) Explain \$gte and \$lte in conditional queries with example.
 - 2) Explain how many ways to manage relationships between documents in nongodb.
- Que-3 (A) Objective Type Questions, Attempt all questions. (03)
- 1) In PHP, a session is initiated by calling the built-in _____ method.
 - 2) List out any four Magic constant in PHP.
 - 3) How to declare destructor in php?
- (B) Answer in detail. (Any Two) (06)
- 1) Define session_destroy().
 - 2) Define fopen() and fclose().
 - 3) Define \$_COOKIE.
- (C) Write a note on. (Any One) (05)
- 1) Explain session_set_save_handler in detail.
 - 2) Write a code to use session in login and logout page.
- Que-4 (A) Objective Type Questions, Attempt all questions. (03)
- 1) Sorting by natural order means?
 - 2) What is the use of Index in mongodb?
 - 3) What is Aggregation in MongoDB?

- (B) Answer in detail. (Any Two) (06)
- 1) Explain difference between mapreduce and group().
 - 2) Define include() and include_once() in php.
 - 3) Explain real time analytics using MongoDB.
- (c) Write a note on. (Any One) (05)
- 1) Explain db.collection.distinct() and db.collection.count() with example.
 - 2) Write a PHP code for count number of students per department with use of mapreduce in mongodb.
- Que-5 (A) Objective Type Questions, Attempt all questions. (03)
- 1) What is vertical scaling?
 - 2) GridFS by default stores a file in two separate collectins: _____ and _____.
 - 3) MongoDB supports _____ scaling through sharding.
- (B) Answer in detail. (Any Two) (06)
- 1) Explain Replication in terms of database management in mongodb.
 - 2) Write a code for reading files from GridFS.
 - 3) Define explain() method.
- (C) Write a note on. (Any One) (05)
- 1) Write a program for storing files in GridFS.
 - 2) Explain mongodump with all options.
