

M.Sc.(IT & CA) Semester - 1 (CBCS) Examination**Oct/Nov. -2018****NoSQL Database MongoDB (CORE)****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) Answer the following Questions. (04)
1. What is NoSQL?
 2. What is Big Data?
 3. What is collection?
 4. Default port number of mongodb is?
- (B) Attempt any one Question. (02)
1. Explain features of MongoDB.
 2. Explain database-as-a-service.
- (C) Attempt any one Question. (03)
1. Explain database, collection and document definitions.
 2. Explain features of NoSQL.
- (D) Attempt any one Question in detail. (05)
1. What is NoSql Database? Explain Types of NoSQL databases in detail.
 2. Write down steps for php installation for Mongodb in windows platform.
- Que-2 (A) Answer the following Questions. (04)
1. Write down syntax of insert a document into a collection using MongoShell.
 2. Full form of RDBMS.
 3. _____ Function is use to delete document from Collection in MongoDB.
 4. Which function is use to display all the information about php configuration & its driver on web page.
- (B) Attempt any one Question. (02)
1. Explain find () and findone() function in MongoDB.
 2. What is getNext()?
- (C) Attempt any one Question. (03)
1. Explain Normalized Data Models.
 2. Explain Upsert() function in MongoDB with example.
- (D) Attempt any one Question in detail. (05)
1. Explain \$gt & \$lt in Conditional Queries with example.
 2. Write a program to Display student Information from Student Collection with four field studid, studname, class, city using display.php web page.
- Que-3 (A) Answer the following Questions. (04)
1. List out any four Magic function in php.
 2. Full form of HTTP.
 3. Write the proper syntax to declare session in MongoDBPhp.
 4. The _____ function allows us to define our own functions for storing and retrieving session data.
- (B) Attempt any one Question. (02)
1. What is the use of isset()?
 2. What is authorization?
- (C) Attempt any one Question. (03)
1. Explain session garbage collector.
 2. List out Magic function in PHP. Explain any one of them.
- (D) Attempt any one Question in detail. (05)
1. Write a php program to create login application with Session using MongoDB.
 2. Explain PHP native session with example.

- Que-4 (A) Answer the following Questions. (04)
1. Which Method is used to count the number of documents or objects in a collection?
 2. The output of the reduce function may pass through a _____ function to further condense or process the results of the aggregation.
 3. Which method lists the distinct values for a specified field of the documents in a collection?
 4. MongoDB applies the _____ phase, which collects and condenses the aggregated data in MapReduce.
- (B) Attempt any one Question. (02)
1. Explain emit ().
 2. Explain sorting ().
- (C) Attempt any one Question. (03)
1. Explain Distinct () Method with example.
 2. Explain Real-time analytics using MongoDB.
- (D) Attempt any one Question in detail. (05)
1. Explain MapReduce Concept with suitable example.
 2. Explain Aggregation & its expressions.
- Que-5 (A) Answer the following Questions. (04)
1. _____ Function is use to load the entire content of the file into memory in GridFS.
 2. _____ Function is use to store files into your database with GridFS.
 3. _____ divides the data set and distributes the data over multiple servers, or shards.
 4. What is chunk file?
- (B) Attempt any one Question. (02)
1. Explain GridFS in detail.
 2. Explain Sharding in MongoDB.
- (C) Attempt any one Question. (03)
1. Explain Optimization concept in MongoDB.
 2. Explain Replication in MongoDB.
- (D) Attempt any one Question in detail. (05)
1. Explain mongoRestore with all options.
 2. What is sharding? Explain horizontal partitioning.
