

M.Sc.(IT & CA) Semester - 1 (CBCS) Examination
Nov/Dec-2023 (SYLLABUS YEAR JUNE-2023)
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. (03)
1. Full form of CAP.
 2. MongoDB is a Document-oriented database. (True or False)
 3. In every document `_id` occupy _____ bytes.
- Que-1(B) Answer the following question. (any Two) (06)
1. What is NoSQL?
 2. Explain advantages and disadvantages of NoSQL.
 3. What is MongoDB?
 4. Explain Data Model Design.
- Que-1(C) Answer the following question. (any one) (05)
1. Describe BASE in NoSQL.
 2. Explain types of NoSQL databases.
- Que-2(A) Answer the following questions. (03)
1. _____ Command provides you with a list of all the databases.
 2. Define the syntax of create database in MongoDB.
 3. _____ method will display all the documents in a Non-structured way.
- Que-2(B) Answer the following question. (any Two) (06)
1. How to remove documents in MongoDB?
 2. Explain `update()` and `save()` methods in MongoDB.
 3. What is Projection in MongoDB?
 4. Explain `pretty()` method with example.
- Que-2(C) Answer the following question. (any one) (05)
1. Create collection and insert multiple documents in MongoDB.
 2. Explain MySQL with MongoDB with example.
- Que-3(A) Answer the following questions. (03)
1. What is Session?
 2. _____ Session variables are set with the PHP Global Variable.
 3. A session is started with _____ function.
- Que-3(B) Answer the following question. (any Two) (06)
1. What is PHP Session?
 2. How does Session Works?
 3. How to modify PHP Session Variable?
 4. How to destroy PHP Session Variable?
- Que-3(C) Answer the following question. (any one) (05)
1. Describe `session_set_save_handler()` function with example.
 2. Create collection and insert document in MongoDB using PHP.

- Que-4(A) Answer the following questions. (03)
1. What is Aggregation?
 2. Mongodb uses _____ command for Map-Reduce operations.
 3. _____ field specifies the location of the result of the Map-Reduce operation.
- Que-4(B) Answer the following question. (any two) (06)
1. Explain Aggregate() method with example.
 2. Explain sum and avg expression using Aggregation.
 3. What is MapReduce?
 4. Explain count() method.
- Que-4(C) Answer the following question. (any one) (05)
1. Explain Map() and Reduce() function With examples.
 2. Explain distinct() in php with example.
- Que-5(A) Answer the following questions. (03)
1. TTL stands for.
 2. Add members to replica set use _____ function.
 3. _____ is the default size of chunks in GridFS.
- Que-5(B) Answer the following question. (any two) (06)
1. What is GridFS?
 2. How to store files to GridFS?
 3. Explain TTL with example.
 4. Explain Replication with example.
- Que-5(C) Answer the following question. (any one) (05)
1. Explain Data Partitioning in details.
 2. Explain Sharding in details.
