

M.Sc.(IT & CA) Semester - 1 (CBCS) Examination
Nov/Dec-2023 (SYLLABUS YEAR JUNE-2016)
NoSQL Database MongoDB(CORE)

Time: 2:30 Hours**Marks: 70****Instructions:**

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

- Que.1(A) Answer the following questions. (04)
1. MongoDB is _____ type of NoSQL database.
 2. What is NoSQL?
 3. Full form of CAP.
 4. _id occupy _____ bytes in every document.
- Que.1(B) Answer the following question. (any one) (02)
1. Why NoSQL is used?
 2. Explain DBaaS in NoSQL.
- Que.1(C) Answer the following question. (any one) (03)
1. Describe Benefits of NoSQL Database.
 2. How to run MongoDB in command Prompt?
- Que.1(D) Answer the following question. (any one) (05)
1. Describe Brewer's (CAP) theorem in NoSQL.
 2. Explain Types of NoSQL databases.
- Que.2(A) Answer the following questions. (04)
1. _____ command is used to create database in MongoDB.
 2. _____ command returns a list of all the databases.
 3. _____ method will display all the documents in a non-structured way.
 4. _____ Method displays the results in formatted way.
- Que.2(B) Answer the following question. (any one) (02)
1. Explain Document database in MongoDB.
 2. What is Collections in MongoDB?
- Que.2(C) Answer the following question. (any one) (03)
1. Difference between RDBMS and MongoDB.
 2. Explain Find() method with example.
- Que.2(D) Answer the following question. (any one) (05)
1. Describe insert, update and delete Document in MongoDB with Example.
 2. Explain pretty() and save() Method with example.
- Que.3(A) Answer the following questions. (04)
1. What is Session?
 2. _____ function is used to destroy the session.
 3. _____ function is used for session handler in MongoDB.
 4. Remove all session variables use _____ function.
- Que.3(B) Answer the following question. (any one) (02)
1. Difference between files and databases.
 2. What is "GC" in SessionManager?
- Que.3(C) Answer the following question. (any one) (03)
1. How does Session works? with example.
 2. Create collection in php with example.

- Que.3(D) Answer the following question. (any one) (05)
1. Explain session_set_save_handler() function.
 2. Use Insert() and find() function in MongoDB database with php.
- Que.4(A) Answer the following questions. (04)
1. _____ function, Combine the intermediate results and produce the final output.
 2. _____ count and returns the number of results that match a query.
 3. _____ function that maps a value with a key and emits a key-value pair.
 4. _____ field specifies the location of the result of the Map-Reduce operation.
- Que.4(B) Answer the following question. (any one) (02)
1. What is Aggregation?
 2. Explain Query and Sort fields in MapReduce().
- Que.4(C) Answer the following question. (any one) (03)
1. What is MapReduce?
 2. Explain Distinct() method with example.
- Que.4(D) Answer the following question. (any one) (05)
1. Explain Map() and Reduce() function With examples.
 2. Explain following Expressions using aggregation with examples.
 1. \$sum
 2. \$avg
 3. \$max
 4. \$push
 5. \$first
- Que.5(A) Answer the following questions. (04)
1. GridFS by default uses two collections _____ and _____.
 2. Each chunk is identified by its unique _____ field.
 3. _____ is a maximum chunks size in GridFS.
 4. Full form of TTL is _____.
- Que.5(B) Answer the following question. (any one) (02)
1. What is GridFS?
 2. What is Horizontal Scaling in Sharding?
- Que.5(C) Answer the following question. (any one) (03)
1. Explain any Three Administration Commands.
 2. Give the advantages of Sharding.
- Que.5(D) Answer the following question. (any one) (05)
1. Explain GridFS Collections with examples.
 2. Explain Replication with example.
