

M.Sc.(IT & CA) Semester - 1 (CBCS) Examination
Jan/Feb. -2022 [OLD COURSE]
NoSQL Database MongoDB(CORE)

Time: 1:30 Hours**Marks: 42****Instructions:**

1. Figures to the right indicate marks.
2. There are five questions in the question paper.
3. Answer any three of the following questions.

-
- Q.1(A) Answer the following questions. (04)**
1. MongoDB is Written in _____.
 2. Full form of BASE.
 3. Full form of NoSQL?
 4. _id occupy____ bytes in every document.
- Q.1(B) Answer the following question. (Any one) (02)**
1. Why NoSQL is used?
 2. Explain DBaaS in NoSQL.
- Q.1(C) Answer the following question. (Any one) (03)**
1. Describe Benefits of NoSQL Database.
 2. How to run MongoDB in command Prompt?
- Q.1(D) Answer the following question. (Any one) (05)**
1. Describe Brewer's (CAP) theorem in NoSQL.
 2. Explain Types of NoSQL databases.
- Q.2(A) Answer the following questions. (04)**
1. _____command provides you with a list of all the databases.
 2. MongoDB connected with _____default port Number.
 3. Define the syntax of create Collection in MongoDB.
 4. _____ Method displays the results in formatted way.
- Q.2(B) Answer the following question. (Any one) (02)**
1. Explain Document database in MongoDB.
 2. What is Collections in MongoDB?
- Q.2(C) Answer the following question. (Any one) (03)**
1. Difference between RDBMS and MongoDB.
 2. Explain Find() method with example.
- Q.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.
- Q.3(A) Answer the following questions. (04)**
1. A session is started with _____ function.
 2. Session variables are set with the PHP global variable: _____.
 3. What is the use of Session?
 4. Remove all session variables use _____ function.
- Q.3(B) Answer the following question. (Any one) (02)**
1. Difference between files and databases.
 2. What is "GC" in Session Manager?

- Q.3(C) **Answer the following question. (Any one)** (03)
1. How does Session works? With example.
 2. Create collection in php with example.
- Q.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.
- Q.4(A) **Answer the following questions.** (04)
1. For the aggregation in MongoDB you should use _____ method.
 2. The _____ phase breakdown the task into smaller subtask in MapReduce.
 3. MongoDB uses _____ command for Map-Reduce operations.
 4. _____ field specifies the location of the result of the Map-Reduce operation.
- Q.4(B) **Answer the following question. (Any one)** (02)
1. What is Aggregation?
 2. Explain Query and Sort fields in MapReduce().
- Q.4(C) **Answer the following question. (Any one)** (03)
1. What is MapReduce?
 2. Explain Distinct() method with example.
- Q.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
- Q.5(A) **Answer the following questions.** (04)
1. The default size of chunks in Grid FS is _____.
 2. Add members to replica set use _____ function.
 3. We store an mp3 file in Grid FS using the _____ command.
 4. Full form of TTL is _____.
- Q.5(B) **Answer the following question. (Any one)** (02)
1. What is Grid FS?
 2. What is Horizontal Scaling in Sharding?
- Q.5(C) **Answer the following question. (Any one)** (03)
1. Explain any Three Administration Commands.
 2. Give the advantages of Sharding.
- Q.5(D) **Answer the following question. (Any one)** (05)
1. Explain Grid FS Collections with examples.
 2. Explain Replication with example.
