

M.Sc.(IT & CA) Semester - 1 (CBCS) Examination
Jan/Feb.-2022 [NEW 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. (03)

1. NoSQL is generally referred to as _____.
2. Full form of CAP.
3. Full form of ACID.

Q.1(B) Answer the following question. (Any two) (06)

1. Explain Data Models in MongoDB.
2. Explain Document Database.
3. What is DBaaS?
4. Explain CAP.

Q.1(C) Answer the following question. (Any one) (05)

1. Explain BASE in details.
2. Explain NoSQL types in details.

Q.2(A) Answer the following questions. (03)

1. Create new database with _____ command.
2. _____ method will display all the documents in a non-structured way.
3. _____ method replaces the entire existing document with the new document.

Q.2(B) Answer the following question. (Any two) (06)

1. Explain Upsert with example.
2. What is Projection MongoDB?
3. Explain limit () and skip () method with example.
4. Explain sort () method with example.

Q.2(C) Answer the following question. (Any one) (05)

1. Insert multiple documents then update and remove document from it.
2. Differentiate MongoDB with Relational Database.

Q.3(A) Answer the following questions. (03)

1. A session is started with the _____ function.
2. In PHP session use _____ as global variable.
3. _____ is use for remove all session variables.

- Q.3(B) **Answer the following question. (Any two)** (06)
1. Explain use of session.
 2. Explain PHP session with example.
 3. Difference between Files and Databases.
 4. Explain read () function in Session Manager.
- Q.3(C) **Answer the following question. (Any one)** (05)
1. Explain session_set_save_handler() function.
 2. Insert, update and delete document using PHP.
- Q.4(A) **Answer the following questions.** (03)
1. _____ method is used for aggregation in MongoDB.
 2. _____ operator is used to append the new value into the array of the document.
 3. _____ removes some specific values from an array as per match query.
- Q.4(B) **Answer the following question. (Any two)** (06)
1. Explain MapReduce with example.
 2. What is pipeline in MongoDB?
 3. Explain \$group with example.
 4. Explain distinct () function with example.
- Q.4(C) **Answer the following question. (Any one)** (05)
1. Explain MongoDB aggregation Pipelines with examples.
 2. Explain aggregation Expressions with examples.
- Q.5(A) **Answer the following questions.** (03)
1. _____ is the MongoDB specification for storing and retrieving large files.
 2. Grid FS by default uses _____ collections.
 3. In Grid FS, the file is split into two _____KB chunks.
- Q.5(B) **Answer the following question. (Any two)** (06)
1. Explain Grid FS collections.
 2. Explain TTL with example.
 3. Describe Data Management in MongoDB.
 4. What is Sharding?
- Q.5(C) **Answer the following question. (Any one)** (05)
1. How replication works in MongoDB explain with example.
 2. Explain Data partitioning in details.
