

M.Sc.(IT & CA) Semester - 1 (CBCS) Examination
Nov/Dec-2023 (SYLLABUS YEAR JUNE-2018)
NoSQL DATABASE: MongoDB(CORE)

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

1. Figures to the right indicate marks.
 2. All questions are compulsory.
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- Que.1(A) Attempt Following. (03)
1. What is NoSQL Database?
 2. What is Data Model?
 3. Default port number of mongodb server is_____.
- Que.1(B) Attempt any Two. (06)
1. Explain Driver for MongoDB on various OS Platforms.
 2. What Data Model and Working with Data.
 3. Differentiate SQL and NoSQL.
 4. Define Databases, collections, and documents.
- Que.1(C) Attempt Any One. (05)
1. Explain advantage and disadvantage of NoSQL databases.
 2. What is NoSQL database? Explain types of NoSQL database in detail.
- Que.2(A) Attempt Following. (03)
1. RDBMS stands for
 2. Which command is used to create new database in mongodb?
 3. Define relational model?
- Que.2(B) Attempt any Two. (06)
1. How to deleting documents in MongoDB,
 2. Define mongoDB and RDBMS together.
 3. Explain limit() and skip() with example.
 4. Explain sort() function in mongodb.
- Que.2(C) Attempt Any One. (05)
1. Write a php script to add 5 record and display all records stored in mongodb, where database – empdb, collection-employee and fields-eid,ename, designation,salary.
 2. Explain insert() , update() and delete() with suitable example.
- Que.3(A) Attempt Following. (03)
1. What is session?
 2. What is authentication?
 3. HTTP stands for_____.
- Que.3(B) Attempt any Two. (06)
1. What is session manager?
 2. Why session is requires?
 3. What is authentication and authorization?
 4. Explain Putting Session Manager in detail.
- Que.3(C) Attempt Any One. (05)
1. Explain methods of session with appropriate examples.
 2. Write a script for creating login, logout and user profile.

- Que.4(A) Attempt Following. (03)
1. What is MapReduce?
 2. Which method lists the distinct values for a specified field of the documents in collection?
 3. What is distinct values?
- Que.4(B) Attempt any Two. (06)
1. Explain Real-time analytics using MongoDB.
 2. Explain Logging with MongoDB.
 3. Explain runCommand() with suitable example.
 4. Define distinct values for field with example.
- Que.4(C) Attempt Any One. (05)
1. Explain MapReduce in MongoDB and PHP in detail.
 2. Explain count() and group() with suitable example.
- Que.5(A) Attempt Following. (03)
1. What is Grid?
 2. What is default chunk file size in mongodb.
 3. What is Replication?
- Que.5(B) Attempt any Two. (06)
1. What is Database optimization?.
 2. How to Reading files in chunks.
 3. What is sharding?
 4. Explain serving files from GridFS.
- Que.5(C) Attempt Any One. (05)
1. Explain Database Administration in detail.
 2. How to Storing files in GridFS. Explain with example.
