

M.Sc.(IT & CA) Semester - 1 (CBCS) Examination
OCT/NOV-2024 (AS PER SYLLABUS YEAR JUNE-2023)
NoSQL Database: MongoDB (Core (New-23))

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. What is NoSQL Database?
 2. What is Collection?
 3. Give an example of Graph based databases?
- Que.1(B) Answer the following question. (Any Two) (06)
1. Explain database-as-a-service.
 2. Difference between SQL vs NoSQL.
 3. Write down steps to install MongoDB.
 4. Explain Data Model Design.
- Que.1(C) Answer the following question. (Any one) (05)
1. Describe BASE in NoSQL.
 2. Explain advantage and disadvantage of NoSQL databases.
- Que.2(A) Answer the following questions. (03)
1. RDBMS Full form.
 2. What is the use of db command?
 3. Explain dbpath.
- Que.2(B) Answer the following question. (Any Two) (06)
1. Explain Advantage of Mongoddb over RDBMS.
 2. Explain find and find One method.
 3. Explain Normalized Data Models.
 4. Explain sort () Method.
- Que.2(C) Answer the following question. (Any one) (05)
1. Explain insert () and update () with example.
 2. Explain \$gte and \$lte in conditional queries with example.
- Que.3(A) Answer the following questions. (03)
1. List out any four Magic function in php.
 2. What is Session?
 3. Full form of HTTP.
- Que.3(B) Answer the following question. (Any Two) (06)
1. Difference between files and databases.
 2. What is session manager?
 3. How to destroy PHP Session Variable?
 4. Define fopen() and fclose().
- Que.3(C) Answer the following question. (Any one) (05)
1. Explain session_set_save_handler in detail.
 2. Explain PHP native session with example.

- Que.4(A) Answer the following questions. (03)
1. What is MapReduce?
 2. What is Aggregation in MongoDB?
 3. Explain Count ().
- Que.4(B) Answer the following question. (Any Two) (06)
1. Define include() and include_once() in php.
 2. Explain emit () Method with example.
 3. Explain Distinct () Method with example.
 4. How to define map () function?
- Que.4(C) Answer the following question. (Any one) (05)
1. Explain group() with Example..
 2. Explain Extracting analytics data with MapReduce.
- Que.5(A) Answer the following questions. (03)
1. What is vertical scaling?
 2. What is the size of chunk file?
 3. What is Grid?
- Que.5(B) Answer the following question. (Any Two) (06)
1. Explain Replication.
 2. What is GridFS? Explain with its advantage.
 3. Explain files and chunks collection.
 4. Explain the use of profiler.
- Que.5(C) Answer the following question. (Any one) (05)
1. Explain Import and Export Data.
 2. Explain mongodump with all options.
