

M.Sc.(IT & CA) Semester - 1 (CBCS) Examination
OCT/NOV-2025 (AS PER SYLLABUS YEAR JUNE-2018)
NoSQL DATABASE: MongoDB(CORE)

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

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

-
- Que.1(A) Answer the following questions. (03)
1. What is collection?
 2. What is NoSQL?
 3. What is Data?
- Que.1(B) Answer the following question. (any Two) (06)
1. Explain Characteristics of NoSQL.
 2. Write about MongoDB
 3. Explain types of NoSQL databases
 4. Explain Documents.
- Que.1(C) Answer the following question. (any one) (05)
1. Explain advantages and disadvantages of NoSQL.
 2. Explain Data Model.
- Que.2(A) Answer the following questions. (03)
1. RDBMS full form.
 2. What is dbpath?
 3. Explain pretty() in mongoDB.
- Que.2(B) Answer the following question. (any Two) (06)
1. How to remove documents in MongoDB?
 2. What is Projection in MongoDB?
 3. Explain sort() method with example.
 4. Explain limit() and skip() with example.
- Que.2(C) Answer the following question. (any one) (05)
1. Explain update() and save() methods in MongoDB.
 2. Explain MySQL with MongoDB with example.
- Que.3(A) Answer the following questions. (03)
1. What is Session?
 2. What is authentication?
 3. What is unset()?
- Que.3(B) Answer the following question. (any Two) (06)
1. What is PHP Session?
 2. How does Session Works?
 3. How to modify PHP Session Variable?
 4. Describe session_set_save_handler() function.
- Que.3(C) Answer the following question. (any one) (05)
1. How to destroy PHP Session Variable?
 2. Create collection and insert document in MongoDB using PHP.
- Que.4(A) Answer the following questions. (03)
1. What is count().
 2. What is MapReduce?
 3. What is aggregation?

- Que.4(B) Answer the following question. (any two) (06)
1. Explain group() method with example.
 2. Explain sum and avg expression using Aggregation.
 3. Explain web Analytics
 4. Explain runCommand() method.
- Que.4(C) Answer the following question. (any one) (05)
1. Explain Map() and Reduce() function With examples.
 2. Explain db.collection.distinct() in php with example.
- Que.5(A) Answer the following questions. (03)
1. TTL stands for.
 2. What is vertical scaling?
 3. What is replication?
- Que.5(B) Answer the following question. (any two) (06)
1. Explain Grid.
 2. Explain files and chunks collection.
 3. Explain TTL with example.
 4. Write about Sharding advantages.
- Que.5(C) Answer the following question. (any one) (05)
1. Explain Data Partitioning in details.
 2. Explain Replication with example.
