

M.Sc.(IT & CA) Semester - 1 (CBCS) Examination
Feb/Mar. -2021 (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.

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- Q.1(A) Objective Type Questions, Attempt all question. (04)
1. Which language is used to write mongodb?
 2. The term NoSQL was used by _____ in _____.
 3. List out NoSQL flavors/categories.
 4. Give an example of a Graph based databases.
- Q.1(B) Answer in brief: (Any One) (02)
1. What are the limitations of 32-bit versions of MongoDB?
 2. What makes MongoDB the best?
- Q.1(C) Answer in detail: (Any One) (03)
1. Explain database-as-a-service cloud.
 2. Define mongod and mongo.
- Q.1(D) Write a note on: (Any One) (05)
1. While creating Schema in MongoDB what are the points need to be taken in consideration?
 2. Define BASE theorem and explain all its property.
- Q.2(A) Objective Type Questions, Attempt all question. (04)
1. In which format mongodb stores the data?
 2. Which type of data mongodb store?
 3. What is the use of db command?
 4. What is mongod and mongo?
- Q.2(B) Answer in brief: (Any One) (02)
1. Define _id in mongodb.
 2. What is use of upsert in mongodb?
- Q.2(C) Answer in detail: (Any One) (03)
1. How to delete document using PHP script.
 2. What is a reference document?
- Q.2(D) Write a note on: (Any One) (05)
1. What is the use of \$set in update? Explain update method with example.
 2. Explain how many ways to manage relationships between documents in mongodb.
- Q.3(A) Objective Type Question, Attempt all questions. (04)
1. In PHP, a session is initiated by calling the built-in _____ method.
 2. Which super global array is used for session?
 3. By default, PHP uses _____ based session handling.
 4. How to declare constructor in php?
- Q.3(B) Answer in detail: (Any One) (02)
1. Limitations of native PHP session handling.
 2. Why we need Authorization process?
- Q.3(C) Answer in detail: (Any One) (03)
1. Define session_destroy().
 2. Define session_write_close.

- Q.3(D) Write a note on: (Any One) (05)
1. Explain session_set_cookie_params in detail.
 2. Write a code to generate a random number and insert into mongodb.
- Q.4(A) Objective Type Questions, Attempt all questions. (04)
1. Sorting by natural order means?
 2. Give the name of principal phases for MapReduce.
 3. What is the use of Index in mongodb?
 4. What is Aggregation in MongoDB?
- Q.4(B) Answer in brief: (Any One) (02)
1. Explain in_array() and array_push().
 2. Explain strtotime().
- Q.4(C) Answer in detail: (Any One) (03)
1. Explain difference between mapreduce and group().
 2. Define require() and require_once() in php.
- Q.4(D) Write a note on: (Any One) (05)
1. List and explain query selector operators in mongodp.
 2. What is MapReduce? Explain in detail.
- Q.5(A) Objective Type Questions, Attempt all questions. (04)
1. What is vertical scaling?
 2. Define horizontal scaling.
 3. gridFS by defaults store a file in two separate collections:_____and_____.
 4. mongoDB supports_____scaling through sharding.
- Q.5(B) Answer in brief: (Any One) (02)
1. define shard keys.
 2. What is use of GridFS in mongodb?
- Q.5 (C) Answer in detail: (Any One) (03)
1. Explain Replication in terms of database management in mongodb.
 2. Advantages Gridfs over the file system.
- Q.5(D) Write a note on: (Any One) (05)
1. Define Sharding and also discuss two methods of sharding.
 2. Explain mongorestore with all options.
