

M.Sc.(IT & CA) Semester - 1 (CBCS) Examination**Oct/Nov. -2019 - [OLD COURSE]****NoSQL Database MongoDB(CORE)****Time: 2:30 Hours****Marks: 70****Instructions:**

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

Q – 1 :**A) Objective type question: 04**

- 1) What is collection?
- 2) What is Graph-base database?
- 3) What is column-base database?
- 4) What is Document-base database?

B) Attempt any one: 02

- 1) Explain history of NoSQL.
- 2) List out major types of NoSQL database.

C) Answer in detail: (Any One) 03

- 1) List out the steps for installing PHP driver for MongoDB on windows platform.
- 2) How to create an array in document.

D) Write note on: (any One) 05

- 1) Explain concept of data modeling and working with data.
- 2) Explain collection and document in detail.

Q – 2 :**A) Objective type question: 04**

- 1) What is the default port number of MongoDB?
- 2) RDBMS stands for.
- 3) What is find one().
- 4) What is the use of Db.collection.remove.

B) Attempt any one: 02

- 1) Explain limit and skip function.
- 2) Explain Mongo client.

C) Answer in Detail: (Any One) 03

- 1) Explain sort() method with example.
- 2) Compare relation database with NoSQL database.

D) Write a note on: (Any One) 05

- 1) Explain insert () and update() with example.
- 2) Explain find () and pretty() methods with example.

Q – 3 :**A) Objective type question: 04**

- 1) How to start magic function.
- 2) HTTP Stands for.
- 3) What is HTTP stateless protocol?
- 4) What is isset and unset method?

B) Attempt any one: 02

- 1) What is HTTP session?
- 2) Explain concept of session management.

- C) **Answer in detail: (Any One)** 03
1) Explain session manager class?
2) Explain session_set_save handler() function.
- D) **Write a note on: (Any One)** 05
1) Explain PHP native session handling with example.
2) Write a PHP program to create login application with session using MngoDB.
- Q – 4 :

- A) **Objective type question:** 04
1) What is reduce phase?
2) Explain emit() method.
3) What is read time analytics?
4) What is web analytics?
- B) **Attempt any one:** 02
1) Explain out field in MapReduce Operatin
2) What is MapReduce? Explain it.
- C) **Answer in Detail: (Any One)** 03
1) Explain concept of extracting analytics data with MapReduce.
2) Explain any three function of groups().
- D) **Write a note on: (Any One)** 05
1) Explain db.collection.distinct() db.collectin.count().
2) Write a PHP code for count number of employee per department with using MapReduce in MongoDB.

Q – 5 :

- A) **Objective type question:** 04
1) Which command is used to backing up student database?
2) What is the size of chunk file?
3) _____ is the process of creating & managing duplicates versions of database & synchronizing data across multiple servers.
4) What is Grid?
- B) **Attempt any one:** 02
1) Explain files and chunks collection.
2) What is replication? Explain it.
- C) **Answer in Detail: (Any One)** 03
1) Define Explain method().
2) What is GridFS? Explain with its advantage.
- D) **Write a note on: (Any One)** 05
1) Write a program for storing files in GridFS.
2) What is Sharding? Explain with its characteristics.
