

Total No. of Questions : 5]

SEAT No. :

PA-1981

[Total No. of Pages : 2

**[5954]-504**  
**B.B.A. (CA)**  
**CA - 504 : MONGO DB**  
**(2019 Pattern) (Semester - V)**

*Time : 2½ Hours]*

*[Max. Marks : 70*

*Instructions to the candidates:*

- 1) *All questions are compulsory.*
- 2) *Figures to the right indicate full marks.*
- 3) *Draw a neat label diagram whenever necessary.*

**Q1) Answer the following : (Any 8)**

**[8 × 2 = 16]**

- a) Define the term Replica set.
- b) Explain the use of "Mongostat"
- c) How scaling is handled in MongoDB
- d) What is the importance of "-id" field in a MongoDB.
- e) Define the term TTL index.
- f) What is the significance of write concern value in *w* field?
- g) What is the importance of an index in data.
- h) What is MMS backup?
- i) Write any two features of MongoDB.
- j) Write syntax of update command.

**Q2) Solve the following : (Any 4)**

**[4 × 4 = 16]**

- a) Differentiate between core server and MongoDB shell in detail.
- b) Explain Why MongoDB is preferred over RDBMs in some applications.
- c) Explain the pattern matching operators used in MongoDB with suitable example.
- d) Write on the importance of database profiling.
- e) Explain the different applications of graph database.

**P.T.O.**

**Q3) Solve the following : (Any 4)**

**[4 × 4 = 16]**

- a) Explain the document data model of MongoDB.
- b) Write on how write queries are handled in replicated environment.
- c) Explain the aggregation framework in brief.
- d) Explain the concept of "2d sphere" index with suitable example.
- e) What is page fault in MongoDB.

**Q4) Solve the following :**

**[8 × 2 = 16]**

- a) Create a collection "Online Course".
- b) Create a new document in "Online Course" collection having ID = 02.
- c) Write a command to show the details of "Online Course".
- d) Show the details of "Online Course" by Find command.
- e) Retrieve the document from "Online course" by find one command.
- f) Display the details of "Online course" whose fee is greater than 20,000.
- g) Display ID, coursename, Fee, use " Pretty course".
- h) Display the details of course having fees 20,000 and duration 6 months.

**Q5) Solve the following : (Any 2)**

**[2 × 3 = 6]**

- a) Explain the MongoDB CRUD CONCERNS.
- b) Explain the various types of NOSQL database.
- c) Explain the Map-Reduce function with suitable example.

