

Total No. of Questions : 5]

SEAT No. :

**P-6018**

[Total No. of Pages : 2

**[6144]-504**

**T.Y. B.B.A. (C.A.)**

**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) *Neat diagram must be drawn wherever necessary.*

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

**[16]**

- a) What is JSON?
- b) Challenges for Data Modelling in Mongo DB.
- c) Explain use of Mongo DB Shell.
- d) Describe Mongo DB utility.
- e) What is mapreduce?
- f) Explain transaction.
- g) Write a syntax of 'InsertOne'.
- h) Explain lock in MongoDB.
- i) Describe Delete command.
- j) Explain use of pretty function

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

**[16]**

- a) Why use NoSQL database.
- b) What is the Embedded Data Modeling Approach.
- c) Write a short note on Mongo Shell commands with examples.
- d) Define the aggregation used in Mongo DB.
- e) Write on the 'deleteMany()' operation

**P.T.O.**

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

**[16]**

- a) Write the difference between MongoDB and SQL.
- b) Write a short note on various types of NoSQL databases.
- c) Write applications of NoSQL.
- d) Describe the Compound index with a suitable example.
- e) What is the role of the profiler in MongoDB?

**Q4) Solve the following :**

**[16]**

- a) Create a collection 'Hospital'.
- b) Create a new document in the 'Hospital' collection having ID=01.
- c) Write a command to show the details of 'Hospital'.
- d) Show the details of 'Hospital' by FIND command.
- e) Display the detail of 'Hospital' by the 'FINDONE' command.
- f) Display the detail of 'Hospital' whose OPD charges are free.
- g) Display ID, Hospital NAME, FEE, and use 'PRETTY()'.
- h) Display details of hospitals, where Fee is less than 200.

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

**[6]**

- a) Write in detail MongoDB Index types.
- b) Write a short note on Compass used in MongoDB.
- c) Explain advantages of NoSQL databases.

