PC1169

[6317]-304

T.Y.B.B.A. (Computer Application)

CA-504 (A) : 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)   **[8×2=16]**

a)   List types of NoSQL databases.

b)   Explain Aggregation Pipeline in MongoDB.

c)   Explain collStats command.

d)   Define Horizontal Scaling.

e)   List the different command-line utilities of MongoDB.

f)   What is Multikey Index?

g)   Explain Monitoring tools related to MongoDB.

h)   Write the syntax of insertMany method.

i)   Explain any two features of MongoDB.

j)   Explain one to one relationship in Embedded Documents.

Q2) Answer the following: (Any 4)   **[4×4=16]**

a)   How the Runtime Configuration of MongoDB is handled? Explain in detail.

b)   Explain MongoDB CRUD Concerns (Read and Write Operations).

c)   List and explain different MongoDB shell commands related to database.

d)   Explain the different indexing reference methods in detail.

e)   Explain Cursor used in MongoDB.

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Q3) Answer the following: (Any 4)   [4×4=16]

    a)   Explain Graph Database in detail.

    b)   Explain analogy between RDBMS and MongoDB Data Model.

    c)   Explain Batch Insert with an example.

    d)   Explain MongoDB Architecture.

    e)   What is Page Fault? How to get details of Page Fault in MongoDB?

Q4) Answer the following: [8×2=16]

Write statement in MongoDB to do the following:

    a)   Create a collection 'Employee' with fields ID, EmployeeName, Designation and Salary.

    b)   Create a new document in the 'Employee' collection having ID=01.

    c)   Write a command to show the details of 'Employee' collection.

    d)   Display EmployeeName, Designation, Salary of Employees having ID=05.

    e)   Display ID, EmployeeName, Designation, Salary of Employees in which designation ends with "ger".

    f)   Display ID, EmployeeName, Designation of Employees whose salary is greater than 50000.

    g)   Display ID,Employee Name,Salary of all Employees in readable format.

    h)   Update salary of Employee having ID=05 to 75000.

Q5) Solve the following: (Any 2)   [2×3=6]

    a)   Explain Monitoring at Server.

    b)   Explain Delete Commands.

    c)   Explain Partial Indexes.

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