PB-1474

[6226]-504
T.Y. B.B.A. (C.A.)
MONGO DB
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.*

Q1) **Answer the following: (Any 8)**   **[8 × 2 = 16]**

   a)   Define NoSQL

   b)   What is a collection in mongoDB?

   c)   Write mongoDB command to drop a collection

   d)   Explain pretty()

   e)   What is a single field index?

   f)   What is the importance of the Seq operator?

   g)   Write syntax of findOneAndDelete.

   h)   Define Pipeline.

   i)   What is a key-value pair?

   j)   How is deleteOne() different from deleteMany()?

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

   a)   Explain need of NoSQL Databases

   b)   Describe Collection, Documents and Key Values

   c)   Explain MongoDB CRUD concepts.

   d)   Explain READ commands like findOne and find with syntax.

   e)   Explain cursor in MongoDB

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Q3) **Answer the following** [4 × 4 = 16]

    a)   Explain types of NoSQL databases

    b)   Compare Document databases with column family databases.

    c)   Explain insert(), insertOne() and insertMany() with suitable example.

    d)   Discuss the types of aggregation with examples.

    e)   Discuss index and its types in MongoDB.

Q4) **Answer any THREE of the following questions.** [16]

    Create a 'films' collection of documents with the following fields:

```
{
      title : "Jurassic Park',
      director "Steven Spielberg',
      release_year: 1993,
      language:"English",
      film_type : ["Action, "Adventure "],
      actors : ["Sam Neill", "Laura Dern", "Jeff Goldblum"]
}
```

Write below statements (8 statements for 2 marks each) in MongoDB to do the following:

    1.   Insert at least 2 documents in a collection.

    2.   Display all documents of 'films' collection in proper format.

    3.   Give all English films released before year 2000.

    4.   Display title and release year of 'Action' films that starts with the letter 'K'.

    5.   Display the latest five 'Hindi' films released in easy-to-read format.

    6.   Count the number of films in which 'Sam Neill' has not acted.

    7.   Update release year of a film 'Jungle Book' to 2016.

    8.   Display director of films that ends with the letter 'K'.

Q5) **Answer the following. (Any 2)** [2 × 3 = 6]

    a)   Explain features of MongoDB

    b)   Explain Sharding

    c)   mongoimport Command

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