**MKCE-MCA-MongoDB-Test-1**

**Total 50 Marks**

**Structure of ‘employees’ collection:**

{

"\_id": "1001",

"jobTitleName": "Developer",

"firstName": "Romin",

"lastName": "Irani",

"preferredFullName": "Romin Irani",

"employeeCode": "E1",

"region": "CA",

"phoneNumber": "408-1234567",

"emailAddress": "romin.k.irani@gmail.com",

"address": "CANADA",

"salary": 2000,

"increment": 500

},

{

"\_id": "1002",

"jobTitleName": "Developer",

"firstName": "Neil",

"lastName": "Irani",

"preferredFullName": "Neil Irani",

"employeeCode": "E2",

"region": "CA",

"phoneNumber": "408-1111111",

"emailAddress": "neilrirani@gmail.com",

"address": "UAE",

"salary": 6000,

"increment": 1000

},

{

"\_id": "1003",

"jobTitleName": "Program Directory",

"firstName": "Tom",

"lastName": "Hanks",

"preferredFullName": "Tom Hanks",

"employeeCode": "E3",

"region": "CA",

"phoneNumber": "408-2222222",

"emailAddress": "tomhanks@gmail.com",

"address": "USA",

"salary": 3000,

"increment": 100

}

**Each Questions Contains (15 X3=45 Marks)**

1. Write a MongoDb query to Insert documents using **insertOne() , insertMany()** function above employee collection.

2. Write a MongoDb query to Update documents using **updateOne(), UpdateMany()** function above employee collection.

3. Write a MongoDb query to Delete documents **deleteOne(), deleteMany()** function above employee collection.

4. Write a MongoDB query to display all the documents in the collection employee.

5. Write a MongoDB query to display the fields **jobTitleName, firstName, lastName, emailAddress and salary**  for all the documents in the collection employee.

6. Write a MongoDB query to display the fields  **jobTitleName, firstName, lastName, preferredFullName, phoneNumber, emailAddress , salary and address** but exclude the field **\_id** for all the documents in the collection employee.

7. Write a MongoDB query to display all the employees which are in the **address USA.**

8. Write a MongoDB query to display all the employees which are in the {address:”CANADA”,”salary”:2000} using **$and, $or, $not and $nor**.

9. Write a MongoB query to display all the employees using **$in** operator.

10. Write a MongoDB query to display the first 2 employee collections.

11. Write a MongoDB query to find the **jobTitleName, firstName, lastName, preferredFullName, phoneNumber, emailAddress , salary and address** for those employees which contain ‘Rom’ as the first three letters for its **firstName (using with and without $regex).**

12. Write a MongoDB query to find the employees who got a salary 1000 using **$gt and $lt** .

13. Write a MongoDB query to find the employees salary using **$min ,$max and $avg** and find total salary using **$sum** operator.

14. Write a MongoDB query to create the Document and Collection by using your own name (ex. students).

15. Explain about MongoDB and Benefits of MongoDb?

16 . Write a MongoDB query to Insert the documents using bulkWrite() **1x5=5**

**\*\*\*ALL THE BEST\*\*\***