21UCS6E6

(FOR THE CANDIDATES ADMITTED

DURING THE ACADEMIC YEAR 2021 ONLY)   REG.NO. :

N.G.M.COLLEGE (AUTONOMOUS) : POLLACHI

END-OF-SEMESTER EXAMINATIONS : MAY-2024

BSC- COMPUTER SCIENCE(SF)   MAXIMUM MARKS: 70

SEMESTER-VI   TIME : 3 HOURS

PART - III
21UCS6E6- MONGO DB

SECTION - A   **(10 X 1 = 10 MARKS)**

ANSWER THE FOLLOWING QUESTIONS.
MULTIPLE CHOICE QUESTIONS.   **(K1)**

1. DB uses --------------- in order to make the query processing more efficient .

   a) sorting   b)hashing   c)indexing   d)ordering

2. ----------------- converting JSON strings into JavaScript objects .

   a)JSON.parse()   b)JSON.convert()   c)JSON.strobj()   d)JSON,obj()

3.------------------ provides regular expression capabilities for pattern matching strings in queries.

   A)$expr   b) $regex   c)$pattern   d)$strreg

4.   ----------------------, which allow you to schedule recurring backups for your deployment.

   A)Continuous Cloud Backups b) legacy backup c)cloud backup d)ondemand snapshots

5. ----------------------- is a utility that creates a binary export of a database's contents.

A)mongotop b)mongodump c)mongorestore d)bsondump

ANSWER THE FOLLOWING IN ONE (OR) TWO SENTENCES   **(K2)**

6. What is hashing.

7. Write the syntax for read operation in CRUD.

8. Define $match operator .

9. Recall the syntax for Drop index .

10. What is Data sharding?

SECTION – B   **(5 X 4 = 20 MARKS)**
ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS. (K3)

11.   a)Examine transaction processing with example.
                              (OR)
         b)Determine object relational database with example.

12. a)Define Table and explain it with example
                    (OR)
     b)Give short notes on Parsing XML

13. a)Develop the coding for querying array using $in and $all operators.
                    (**OR**)
     b)Describe the concept of projection queries with example.

14. a)Elucidate the concept of Regular expression with example .
                    (OR)
     b)Write down the steps to search a text in a database.

15. a)Narrate the concept of replication in mongo DB.

                    (OR)
     b)Give a short note on resource utility.

SECTION - C   **(4 X 10 = 40 MARKS)**
ANSWER ANY FOUR OUT OF SIX QUESTIONS
(16th QUESTION IS COMPULSORY AND ANSWER ANY THREE QUESTIONS
(FROM Qn. No : 17 to 21)   **(K4 (Or) K5)**

16. Elaborate the concept of Mongo DB instalation.

17. Categorize the No SQL datatypes and explain it with example.

18. Write a mongo DB command to create and update a database .

19. Determine the map reduce function with example.

20   Summarize the one to one and one to many relationship with example

21. Evaluate the concept of Data security in mongo DB with example.

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ETHICAL PAPER