

(FOR THE CANDIDATES ADMITTED

22UCS6E6

DURING THE ACADEMIC YEAR 2022 ONLY)

REG.NO.

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

END-OF-SEMESTER EXAMINATIONS : MAY 2025

B.Sc. Computer Science(SF)

MAXIMUM MARKS: 50

SEMESTER-VI

TIME : 3 HOURS

**PART – III**

**22UCS6E6-MONGO DB**

**SECTION – A**

**(10 X 1 = 10 MARKS)**

**ANSWER THE FOLLOWING QUESTIONS.**

**(K1)**

1. \_\_\_\_\_ is used for controlling concurrent execution of the operation that take place on a database.  
a) Concurrency control      b) Transaction processing      c) recovery      d) hasing
2. JSON stands for \_\_\_\_\_  
a) Javascript Optimize Notation      b) Java Script Object Notaion  
c) Java Script Object Network      d) Javascript Oops Notaion
3. The \_\_\_\_\_ is used to specify the order in which the query returns matching document from the given collection.  
a) acending()      b) ascending sort()      c) sort()      d) sort ascending()
4. Text search is performed using text index and \_\_\_\_\_ operator.  
a) \$text      b) \$string      c) \$char      d) \$find
5. \_\_\_\_\_ refers to the process of distributing data up across machines.  
a) transaction      b) concurrency      c) sharding      d) storing

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

**(K2)**

6. Define Collection.
7. State the use of upset.
8. How to write regular expressions?
9. Define Data security.
10. List any two features of data safety.

**SECTION – B**

**(5 X 3 = 15 MARKS)**

**ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS. (K3)**

11. a) Discuss in detail the Query processing with example.  
(OR)  
b) Write short notes on Data mining and data warehousing.

**Ethical paper**

**(CONTD .... 2)**

12. a)Describe the concept of Data extraction in Mongo DB.  
(OR)  
b)Narrate the concept of parsing CSV.
13. a)Examine the concept of querying arrays using the operators with example.  
(OR)  
b)Explain in detail Projection queries with example.
14. a)Write about indexes and explain about the steps to create, find and drop the indexes.  
(OR)  
b)Narrate the concept of relationship and explain its various types with example.
15. a)Evaluate the concept of Data replications in Mongo DB.  
(OR)  
b)Give short notes on Data Sharding.

**SECTION – C****(5 X 5 = 25 MARKS)****ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS.(K4 (Or) K5)**

16. a)Elaborate the concept of CAP Theorem.  
(OR)  
b)Classify the various data types and explain it with example.
17. a)Write down the steps to stating and running Mongo DB with a neat Diagram.  
(OR)  
b)Summarize CURD with example.
18. a)Discuss in detail the Aggregation Pipeline.  
(OR)  
b)List the various Aggregation operators and explain it with example.
19. a)Enumerate the concept of Text processing of Data sets with example.  
(OR)  
b)Demonstrate Map Reduce.
20. a)Evaluate the concept of Mongo DB security.  
(OR)  
b)Discuss in detail Resource Utility.

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