

S.NO: 22N1- PCS

Course Code: PGXA

A.D.M.COLLEGE FOR WOMEN, NAGAPATTINAM

(AUTONOMOUS)

M.Sc (Computer Science) Degree Examination

I Semester – November – 2022

CC I – DATABASE AND NoSQL

Time: 3 hours

Maximum Marks: 75

Section –A

10X2=20

Answer **ALL** the Questions

1. What is database?
2. What is data warehouse?
3. Name three common features of key-value databases.
4. What is Hash Function?
5. Define Relational Database (RDBMS).
6. What is ACID in MySQL?
7. What are the major stages of query processing?
8. What is the difference between normalization and denormalization?
9. Define Replication
10. What is meant by column-based database?

Section -B

5x 5=25

Answer **ALL** the Questions

11. a) Explain Transaction management

(or)

b) List out the Advantages of Database Management systems

12. a) Distinguish between Schema and Instance

(or)

b) Explain the Data modeling in MongoDB

13. a) Categorize the Properties of ACID

(or)

b) Distinguish between NoSQL and RDBMS

14. a) Summarize the advantages of Document-based Database

(or)

b) Point out the use cases for document databases

15. a) Explain the applications of column-based database

(or)

b) Summarize the Benefits of Column Store Databases

Section -C

3 X 10 = 30

Answer any **THREE** Questions

16. Elaborate the Components of Data ware house
17. Write a short note on MongoDB CRUD Operations
18. Elaborate the Four types of NOSQL Database
19. Classify the various types of Partitioning
20. Distinguish between features of Relational and Non –relational database

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