

SHRIMATHI DEVKUNVAR NANALAL BHATT VAISHNAV COLLEGE FOR WOMEN  
(AUTONOMOUS)

(Affiliated to the University of Madras and Re-accredited with 'A+' Grade by NAAC)  
Chromepet, Chennai — 600 044.

M.Sc.(Computer Science) END SEMESTER EXAMINATIONS NOVEMBER - 2023  
SEMESTER - III

**20PCSCT3008 - Advanced Database Management Systems**

Total Duration : 2 Hrs. 30 Mins.

Total Marks : 60

**Section B**

Answer any **SIX** questions ( $6 \times 5 = 30$  Marks)

1. Describe the alternative approaches to distributed DBMS architecture
2. Illustrate the method involved in creating and manipulating values with structured data types.
3. Describe Multidimensional Aggregate Queries.
4. Describe the role of decision tress.
5. Apply searching and inserting points into a Grid file.
6. Classify the methods of storing data in a distributed DBMS.
7. Classify RDBMS, OODBMS and ORDBMS.
8. Describe various Spatial data and Queries.

**Section C**

I - Answer any **TWO** questions ( $2 \times 10 = 20$  Marks)

9. Apply recovery techniques in distributed DBMS.
10. Classify the ODMG
  - i) Data definition language
  - ii) Query language.
11. Examine the following,
  - i) Frequent item sets.
  - ii) Ice-berg queries
12. Criticize the following,
  - i) The methodologies used in storing XML data in a relational DBMS
  - ii) The process of mapping XML data to relations.

II - Compulsory question ( $1 \times 10 = 10$  Marks)

13. Explain in detail about various types of Clustering Techniques with example.

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