Master of Computer Application (MCA)-II (CBCS Pattern) Fourth Semester CBCS
PSMCAT403 - Database Administration & Distributed Database Paper - III

P. Pages : 2

Time : Three Hours

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3220

Max. Marks : 80

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Notes :   1.   All Questions are compulsory and carry equal marks.
2.   Draw neat and labelled diagram and use supporting data wherever necessary.
3.   Avoid vague answers and write specific answers related to Questions.

1.   Either:-

a)   What do you mean by database file layout? Explain how to resize the data file.   **8**

b)   Explain following in detail: **8**

1)   Database creation

2)   Data Migration

OR

c)   Explain following in detail: **8**

1)   Data Dictionary

2)   Redo Log File.

d)   Explain the concept of storage structure and managing password security and resources.   **8**

2.   Either:-

a)   What do you mean by Backup and recovery considerations? Explain the oracle recovery structure and processes in detail.   **8**

b)   Explain following in detail: **8**

1)   Complete recovery of an oracle database.

2)   Incomplete recovery of an oracle database with Archiving.

OR

c)   Define Tuning. Explain the concept of Tuning the shared pool.   **8**

d)   Explain database configuration and I/O issues in detail.   **8**

3.   Either:-

a)   What do you mean by Distributed Database systems? Explain the different problems of DDBS.   **8**

b)   Explain following in detail: **8**

1)   Completing factors and problem areas

2)   DDBMS architectural models.

OR

c)	Explain the various design issues of distribute Database system.	**8**
d)	Explain the concept of Fragmentation and allocation in detail.	**8**

4. Either:-

a)	What is Query processing? Explain different problems of Query processing.	**8**
b)	Explain the different objectives of Query processing in detail.	**8**

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OR

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c)	What are the relational algebra operation? Explain different operators in detail.	**8**
d)	Explain different layers of Query processing in detail.	**8**

5. Solve all the Questions.

a)	Write short note on Privileges.	**4**
b)	Discuss in short about Buffer cache and Redo log Buffer.	**4**
c)	Write short note on DDBMS Global Directory issues.	**4**
d)	Write a note on Complexity of relational operators.	**4**

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