## CHAPTER 1

## Database System Concepts and Architecture

## Syllabus Topics

Introduction, Characteristics of Databases, File system v/s Database system, Data abstraction and Data Independence, DBMS system architecture, Database Administrator (DBA), Role of DBA, Self-learning Topics: Identify the types of Databases.

	Introduction	
1.2	Purpose of Database	1-2
	1.2.1 File Processing System	
C	1.2.2 Drawbacks of Traditional File Processing Systems	1-3
	1.2.3 Characteristics of Database / Advantages of Database Management System	
	1.2.4 Disadvantages of Database Management System	1-7
(	1.2.5 File System v/s Database System	
	UQ. 1.2.6 Compare the traditional file system with Database. MU - May 19, Dec. 19, 5 Marks	
1.3)	Applications of DBMS	
1.4	Data Independence	1-10
	(UQ. 1.4.1) Explain Data Independence. MU - Dec. 17, 5 Marks	1-10
	UQ. 1.4.2 Justify the term Data Independence. MU - Dec. 18, 5 Marks	
1.5	DBMS System Architecture - Levels	1-11
	UQ. 1.5.1 Draw and explain Database System Structure. MU - May 17, 10 Marks	1-11
(	1.5.1 Data Abstraction	1-12
,	1.5.2 Levels of Abstraction	
	1.5.3 DBMS Architecture / Components of DBMS	1-13
	(UQ. 1.5.2) Explain DBMS architecture. MU - May 18, 10 Marks	1-13
	1.5.3(A) Physical Data Model	1-15
(1.6)	Database Users and DBA	1-15
	1.6.1 Database Users	1-15
	UQ. 1.6.1 Discuss different users of Database system. MU - May 17, 5 Marks	
	UQ. 1.6.2 Explain in detail different database users. MU - Dec. 17, 10 Marks	
	1.6.2 Database Administrator (DBA)	
	UQ. 1.6.3 Define the DBA. MU - May 19, 5 Marks	
	1.6.3 Role of DBA MU - May 18 May 19 Dec 19 5 Marks	
1.7	The may re, may re, beer re, o marke	
1.,	Database Languages	
	1.7.2 Data Manipulation Language (DML)	
1.8	Self Learning Topics : Identify the Types of Databases	
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	Chapter Ends	1-20