S.NO	PRIMARY TOPICS	SUB TOPICS	POINTS TO BE COVERED	DURATION (THEORY) in MIN
1	Introduction			
		What is database?		
		Why we need database?	1.Explain the general & business perspective use of database	
		History of Database	 Data Modeling File Systems Hierarchical Databases Network Databases Relational Databases Object Databases Object Relational Databases 	180
		Database concepts	File Based Approach Disadvantages of file based approach Database Approach	
2	DBMS			
		What is DBMS?		
		Advantage in using DBMS	List down & Explain the advantages of DBMS	1
		Functions of DBMS	List down the main ten functions of DBMS & Explain	- 60
		ACID properties	Atomicity Consistency Isolation Durability	20
3	Terminologies			
		Entity		
		Attribute		
		Domain	7	
		Tuple	Define all the terminologies with an example	20
		Degree		
		Cardinality		
		Relational Database	7	
4	RDBMS			
		What is RDBMS?	Difference between DBMS & RDBMS? What is table? What is a field? What is row and column? What is NULL value?	45
		Entity Relationship Modeling	What is a relation? What is mean by relationship? Relationship types What is primary key & foreign key? Constraints Data Integrity	45
		EF codd rules	All rules	90
5	Normalization			
		What is normalization? List of Normalization forms	Drawback why normalization is required 1. UNF 2. 1NF 3. 2NF 4. 3NF 5. BCNF	120

6	SQL			
		What is SQL?	SQL basics with joins, index and views	
		Data Types		90
		DDL	Create, Alter, Rename, Truncate, Drop	
		DML	Insert, Delete, Update, Select	
		DCL	Grant, Revoke	
		TCL	Commit, Rollback	
7	General RDBMS Architecture			
		Database Layered Architecture	Application Layer Logical Layer Physical Layer	
		Logical Modules of RDBMS	Query Processing Transaction Management Recovery Management Storage Management	60
8	Different DBMS Products			
		MSSQL		30
		Ingres		
		Oracle		
		MySQL		
		NoSQL		