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Total Pages: 02

BCA/D-17

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FUNDAMENTALS OF DATABASE BCA-235

Time: Three Hours] [Maximum Marks: 80

lote: Attempt *Five* questions in all, selecting at least *one* question from each Unit. Q. No. 1 is compulsory.

- 1. (a) Define Data, Information, Domain and Attribute.
 - (b) Define physical and logical data independence.
 - (c) Discuss simple and complex mapping.
 - (d) Define primary key and foreign key with example.

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Unit I

- Define Database and its components. Discuss its comparison with traditional file system.
- 3. (a) Define DBMS, its working, merits and demerits.
 - (b) Discuss role of DBA and its working. 16

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Unit II

4.	Explain three levels of Database architecture. Also show			
	their interlinking mappings. 16			
5.	Write notes on the following:			
	(a) Centralized v/s Client Server Database.			
	(b) Classification of DBMS. 16			
	·			
	Unit III			
6.	What is E-R diagram ? Discuss its symbols. Make an			
	E-R diagram for Teacher-Student Relationship. 16			
7.	Discuss Record based and Object based data models with			
	merits and demerits.			
	TOPP Unit IV			
8.	Explain relational model with its properties. 16			
9.	Write notes on the following:			
	(a) Model Based on 1: M association			
	(b) Relational and Integrity Constraints. 16			