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INTRODUCTION TO DATABASE SYSTEM BCA-234

Time : Three Hours] [Maximum Marks : 80

Note: Attempt *Five* questions in all, selecting *one* question from each Unit. Q. No. 1 is compulsory. All questions carry equal marks.

Compulsory Question

- 1. Define the following terms: $8\times2=16$
 - (a) File (b) Record
 - (c) Data Manager (d) Query processor
 - (e) Entity Set (f) Composite attribute
 - (g) Domain (h) Entity Integrity.

Unit I

- 2. Define DBMS. Explain the functioning of DBMS along with its components.16
- 3. (a) What is the need of Database System? How is it beneficiary over file management system? Explain by giving suitable example.8

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	DBMS.
	Unit II
4.	Explain record based data model and its characteristics and types in detail.
5.	Differentiate between the following: (i) Logical Data Independence vs. Physical Data Independence (ii) Centralized DBMS vs. Client Server Architecture DBMS. (iii) Schema vs. Instances.
	Unit III
6.	Define E-R Model along with its advantages. Create E-R Model for Banking System.
7.	Write short notes on the following: (a) Generalization and Specialization (b) Entity Type and Relationship Type.
	Unit IV
8. (2)L	Explain all the keys used in relational model by giving suitable example. 16 -1231 2
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(b) Briefly describe the different types of users in

- 9. (a) What do you mean by base table and views in RDBMS? How does base table differ from views in RDBMS?8
 - (b) How insert, delete and update operation is performed over a relation? Which relational constraints may be violated during these operations?