

S.No. : 436

BBA05/BBA205

No. of Printed Pages : 04

Following Paper ID and Roll No. to be filled in your Answer Book.

PAPER ID : 27125

Roll
No.

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B. B. A./ I. M. B. A. Examination 2021-22

(Even Semester)

DATA BASE MANAGEMENT SYSTEM

Time : Three Hours]

[Maximum Marks : 60

Note :- Attempt all questions.

SECTION – A

1. Attempt all parts of the following : $8 \times 1 = 8$

- (a) Define the term data base management system.
- (b) Define a primary key.
- (c) Define the terms DDL and DML.
- (d) Write two primary functions of a DBA.
- (e) What is normalization?
- (f) List different types of file organization system.

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- (g) What are the offline storage devices?
- (h) What is a program file?

SECTION – B

2. Attempt any two parts of the following : $2 \times 6 = 12$

- (a) Explain application of data base management system.
- (b) List various DDL commands. Explain any four with example.
- (c) Explain 1NF and 2NF with one example of each.
- (d) List out some security considerations in data base management system.

SECTION – C

Note:- Attempt all questions. Attempt any two parts from each questions. $8 \times 5 = 40$

3. (a) What are the different advantages and disadvantages of DBMS?
- (b) What is meant by data model? Explain hierarchical and relational data model.

- (c) What is a key in DBMS? Explain foreign key and candidate key.
- 4. (a) What is an ER diagram? Explain the various components of an ER diagram.
- (b) Define the architecture of DBMS. Explain the 2-tier and 3-tier architectures in detail.
- (c) What do you understand by data independence? Define the physical and logical data independence.
- 5. (a) What is file organization in DBMS? Explain sequential and random file organization.
- (b) Explain in detail the functional dependencies in DBMS?
- (c) What is data redundancy? How the normalization helps to minimize the redundancy in a DBMS? Explain BCNF with example.
- 6. (a) Explain the various input and output devices of a computer system.

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- (b) Explain some business applications of information systems in an organization.
- (c) What do you understand by performance improvement in data base? Explain the steps required to increase the data base performance.
