

S.No. : 34

IMBA 3401

No. of Printed Pages : 03

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

**PAPER ID : 37501**

Roll  
No.

1	2	2	0	6	7	5	1	1	1
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## IMBA Examination 2023-24

(Even Semester)

### DATABASE MANAGEMENT SYSTEM

*Time : Three Hours]*

*[Maximum Marks : 60*

**Note :-** Attempt all questions.

#### SECTION - A

1. Attempt all parts of the following :

8 × 1 = 8

- (a) Define DBMS in short.
- (b) Define primary key in your words.
- (c) Define DML in your words.
- (d) Define subschema in short.
- (e) What is random file?
- (f) Define normalization.

*[ P. T. O.*

- (g) Define input devices in short.
- (h) Define offline storage devices.

### SECTION – B

2. Attempt any two parts of the following :  $2 \times 6 = 12$
- (a) Discuss all the kinds of keys you studied.
  - (b) Discuss functions of DBA.
  - (c) Explain all kinds of normalization in detail.
  - (d) Discuss all types of input and output devices in detail.

### SECTION – C

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

3.
  - (a) Distinguish amongst all types of data models.
  - (b) Describe all advantages and disadvantages of DBMS.
  - (c) Discuss referential integrity.
4.
  - (a) Discuss E-R diagram in detail.
  - (b) Describe architecture of DBMS.

- (c) Explain data independence and its types.
- 5. (a) Explain all types of files.
- (b) Describe functional dependency and its type.
- (c) Discuss schema and subschema.
- 6. (a) Discuss off line storage devices and its types.
- (b) Describe program files and their importance.
- (c) Explain performance improvements in data base.

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