

Roll No. ....

**57535**

**BBA 4<sup>th</sup> Semester (N.S.) 2014-17**

**Examination – July, 2021**

**DATA BASE MANAGEMENT SYSTEM**

**Paper : BBAN-405**

Time : Three hours ]

[ Maximum Marks : 50

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

**Note :** All question of Section 'A' are *compulsory*. Attempt any *four* questions from section 'B' selecting at least *one* question from each unit.

**SECTION – A**

1. Explain the following in brief :

- (i) Log based recovery techniques
- (ii) Disadvantages of using a DBMS
- (iii) Client/ server architecture
- (iv) Various ways in which a database can be secured
- (v) Multimedia data base

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## SECTION - B

### UNIT - I

2. Explain the advantages of database management system over file management system.
3. Who is data base administrator ? Describe the main duties and responsibilities of database administrator.

### UNIT - II

4. Describe the three-schema architecture. Why do we need mappings between schema levels ? How do different schema definition languages support this architecture ?
5. Why is it important to use an implementation-independent data model during conceptual schema design ? What models are used in current design tools ? Why ?

### UNIT - III

6. What is database recovery ? How are buffering and caching techniques used by the recovery subsystem ?
7. What are the main reasons for and potential advantages of distributed databases ?

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## UNIT – IV

8. What is Data Mining ? Explain Data Mining Techniques. Compare between Data Mining and Data Warehousing.

9. Write notes on:

- (a) Emerging data base technologies and
- (b) Digital libraries.